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Fishery Leaflet
#393

FISHERIES OF THE UNITED STATES 1960

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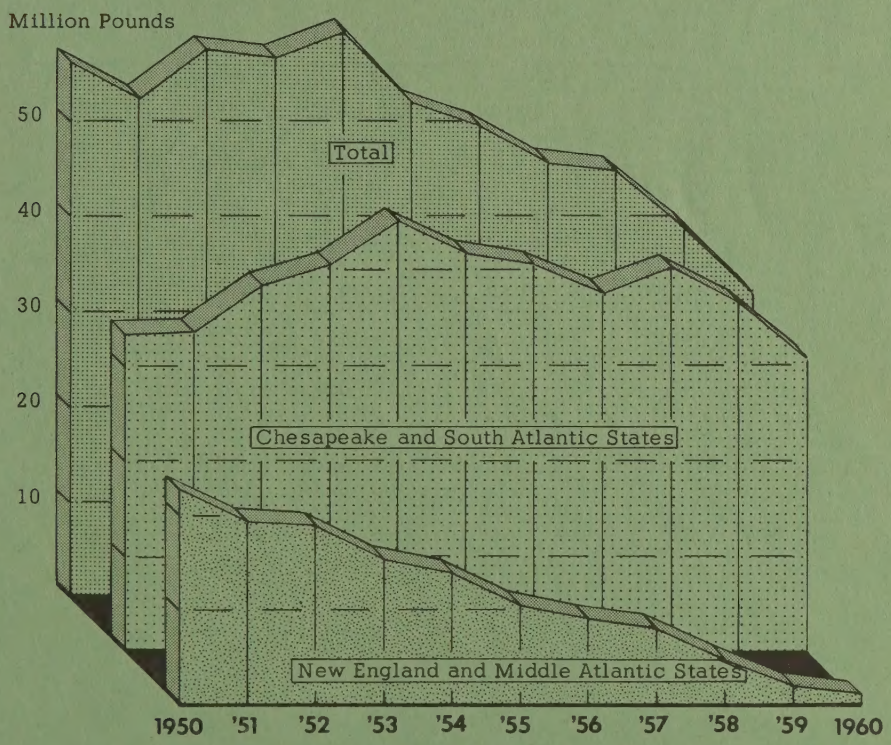
(A PRELIMINARY REVIEW)

By E. A. POWER

ATLANTIC COAST PRODUCTION OF OYSTER MEATS, 1950 - 1960



Fishery Leaflet 393

United States Department of the Interior, Stewart L. Udall, Secretary
Fish and Wildlife Service, Clarence F. Pautzke, Commissioner
Bureau of Commercial Fisheries, Donald L. McKernan, Director

Washington 25, D. C.

Revised April 1961

ATLANTIC COAST PRODUCTION OF OYSTER MEATS, VARIOUS YEARS

Year	New England	Middle Atlantic	Chesapeake	South Atlantic	Total, East Coast
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds
1880.	3,860	28,397	117,405	393	150,055
1908.	19,701	23,192	63,983	8,070	114,946
1930.	9,432	21,516	36,724	5,896	73,568
1937.	11,415	14,617	31,716	5,454	63,202
1945.	2,478	13,553	32,570	2,822	51,423
1950.	4,728	18,170	29,954	3,034	55,886
1951.	1,970	17,410	29,598	3,783	52,761
1952.	2,209	16,767	34,418	4,112	57,506
1953.	1,038	14,462	36,946	4,019	56,465
1954.	735	13,377	41,587	3,811	59,510
1955.	619	9,848	39,227	2,260	51,954
1956.	506	8,466	37,064	3,656	49,692
1957.	405	7,981	34,234	3,069	45,689
1958.	276	4,296	37,530	2,651	44,753
1959.	387	1,392	33,322	3,516	38,617
1960.	381	1,058	26,276	4,118	31,833

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1960

(A Preliminary Review)

by

E. A. Power

Chief, Branch of Statistics

Division of Resource Development

Fishery Leaflet 393 (Revised)
Washington 25, D. C.
April 1961

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The data and estimates used in this leaflet were prepared under the supervision of E. A. Power. The material was prepared for publication under the supervision of Francis Riley, Fishery Marketing Specialist.

UNITED STATES CATCH

REVIEW, 1960

The yield from the United States commercial fisheries in 1960 was 4.9 billion pounds -- the nation's third largest. Only in 1956, when a record catch of 5.3 billion pounds was taken, and in 1959 (5.1 billion pounds landed) was the annual harvest greater.

The total amount paid to fishermen was about the same as in 1959. However, the average price paid was only 7.04¢ per pound. The total average price was lower only in 1946 and 1959. The value of the catch amounted to 347 million dollars -- a few thousand dollars more than in 1959 but 11 million dollars below the previous ten-year average.

A sharp decline in the landings of menhaden, Alaska herring, Pacific sardines, and miscellaneous species used in the manufacture of industrial products resulted in the reduced volume of the catch. Increases occurred in catches of Pacific salmon, jack mackerel, Maine herring, crabs, and yellowfin tuna.

HIGHLIGHTS OF 1960

RECORDS ESTABLISHED

- Clams --- 48.6 million pounds of meats.....(previous high, 1959 -- 45.0 million pounds of meats).
- Crabs --- 205.6 million pounds.....(previous high, 1959 -- 174.6 million pounds). The East Coast blue crab fishery and the West Coast king crab fishery produced record catches.
- Sea Scallops --- 26.6 million pounds.....(previous high, 1959 -- 24.6 million pounds).
- Gulf States Landings --- 1.3 billion pounds; nearly 26 percent of the entire United States catch. The record landings were due to an all-time-high menhaden catch -- 841 million pounds.....(previous high for these waters, 1959 -- 752 million pounds).
- Halibut --- United States-Canadian North Pacific catch totaled 71.8 million pounds (landed weight).....(previous high, 1959 -- 71.5 million pounds).
- World Catch --- a record 77.9 billion pounds in 1959.....Japan in first place, China (Mainland) in second, then the United States followed by the U.S.S.R.
- Canned Tuna --- 15.3 million cases valued at 173 million dollars.....(previous high, 1959 -- 14.3 million cases; previous record value, 1958 -- 162 million dollars).
- Canned Animal Food --- 8.8 million cases.....(previous high, 1958 -- 7.5 million cases).
- Canned Clam Products --- 2.1 million cases; value, 13.6 million dollars.....(previous high, 1959 -- 2.0 million cases; previous high value, 1953 -- 12.6 million dollars).

UNITED STATES CATCH - Continued

REVIEW, 1960 - Continued

- Menhaden Oil --- 24.5 million gallons.....(previous high, 1956 -- 22.4 million gallons).
- Tuna and Mackerel Meal --- 26.3 thousand tons.....(previous high, 1956 -- 26.2 thousand tons).
- Fish Sticks --- 65 million pounds.....(previous high, 1955 -- 63 million pounds).
- Fish Portions --- 48 million pounds.....(previous high, 1959 -- 37 million pounds).
- Shrimp Imports --- 113 million pounds.....(previous high, 1959 -- 28 million pounds).
- Spiny Lobster Imports --- 32 million pounds.....(previous high, 1957 -- 28 million pounds).
- Canned Oyster Imports --- 7 million pounds.....(previous high, 1959 -- 6 million pounds).
- Shrimp Exports --- 3.5 million pounds.....(previous high, 1959 -- 2.9 million pounds).
- Shrimp Supply Available for Consumption -- a record 261 million pounds.

OTHER IMPORTANT FACTS

- The menhaden catch, 2 billion pounds, made up 41 percent of the total United States landings.
- Shrimp was the most valuable species taken by United States fishermen. The landed catch was worth 67 million dollars -- nearly 20 percent of the total amount paid to fishermen.
- The South Atlantic and Gulf shrimp catch.....236.5 million pounds.....nearly 17 million pounds greater than in 1959.
- Oyster production.....only 58 million pounds of meats.....less than 38 percent of the 1908 production of 152 million pounds. The 1960 take was the smallest in well over 100 years.....
  In New England.....only 8 percent of the 1950 production and 2 percent of that taken in 1908.....
  New York, New Jersey, and Delaware.....only 6 percent of the 1950 production and 5 percent of that taken in 1908.....
  And in the Chesapeake area.....9 million pounds less than the previous 10-year average and only 41 percent of the oyster meats taken in 1908.
- The tremendous expansion of the menhaden fishery in the Gulf of Mexico caused the total catch of all species from these waters to increase from only 4 percent of the United States catch in 1936 to 26 percent in 1960.
- The Bristol Bay red salmon run approached a near record. Over 22 million fish (perhaps a new record) escaped capture and reached the spawning grounds. Unlike Bristol Bay, salmon runs in Southeastern Alaska, Washington, and Oregon were disappointing.

UNITED STATES CATCH - Continued

REVIEW, 1960 - Continued

- The California tuna fishery had a better year than in 1959. It was prosperous for both canners and fishermen. The outstanding development in the tuna fishery was the conversion of tuna clippers to purse seiners. Greater productivity was reflected in lower costs and an increased demand for domestic fish. The converted vessels made trips averaging about 30 days. In past years the clippers required 60 to 80 days. There were 67 converted purse seiners operating by the end of 1960.

- The catch of yellowfin tuna (190 million pounds) landed at California ports was only 18 million pounds less than the 1948 record catch.

- Canned crabmeat (205 thousand cases in 1960) was exceeded only by the 1948 pack of 221 cases.

- Sheared female fur-seal skins were sold in large numbers for the first time at the 1960 fall auction. They were sold at an average of $35.69 per skin. Male skins went at $103.31.

- Imports of groundfish fillets and blocks totaled 155 million pounds. They were 29 million pounds less than in 1959 but still larger than any year prior to 1959.

MAJOR SPECIES

- Menhaden.....Landings of 2.0 billion pounds -- the third largest catch in the history of the fishery -- accounted for 41 percent of the total United States catch. The harvest was 204 million pounds less than the record 2.2 billion pounds taken in 1959.
  The tremendous expansion of the menhaden fishery in the Gulf of Mexico resulted in a record catch of 841 million pounds. Fish were there in volume. A larger catch would have been taken if marketing facilities ashore had been able to handle them. Along the Atlantic Coast, the catch was down 293 million pounds because of reduced catches off Virginia and North Carolina. Large numbers of good-sized fish were left undisturbed as they went by the South Atlantic Coast. This was caused by a drastic reduction in the number of vessels operating in the fall fishery because of unfavorable marketing conditions in the fish meal and oil market.

- Groundfish.....Species that support the hard-pressed New England fillet industry -- groundfish and ocean perch -- were landed in about the same volume as in 1959. Cod and pollock catches were less while landings of haddock and ocean perch showed good increases. Average prices paid fishermen were somewhat below those in 1959. The domestic production of groundfish fillets amounted to 93.8 million pounds. This was slightly above the 91.1 million pounds produced in 1959 and nearly 55 million pounds below the 148.8 million-pound peak production of 1951. After many years of constantly increasing imports, the trend establishing a new record each year was broken in 1960 when imports amounted to 155.6 million pounds -- 29 million pounds less than in the previous year. Despite the decline, the imports were larger than for any year prior to 1958.

UNITED STATES CATCH - Continued

REVIEW, 1960 - Continued

- Tuna, Pacific.....Outstanding in the economical recovery of the tuna industry in 1960 was the spectacular success story of clippers converted to seiners and the continuous growth of the United States consumption of canned tuna. A record pack of over 15 million cases valued at an all-time-high of nearly 173 million dollars was produced. Domestic fishermen caught 297 million pounds of tuna -- about 14 million pounds more than in 1959.
  Tuna seiners demonstrated both efficiency and economy by taking larger catches of yellowfin tuna in less than half the time required by clippers. The converted vessels made trips averaging about 30 days. In past years, as clippers, they were at sea for 60 to 80 days. Their success was reflected in lower operating costs and the fish were sold at lower but profitable prices. This created an increased demand for domestic fish and less appeal for imported tuna. Imports of frozen tuna, loins and discs, and canned tuna were less than in 1959. The year 1960 was prosperous for domestic fishermen and canners.

- Salmon, Pacific.....The catch totaled 241 million pounds -- much better than the 202 million pounds landed in 1959. Red salmon returned to Bristol Bay, Alaska in near-record numbers. Over 22 million fish (perhaps a new record) escaped capture and reached the spawning grounds. Fishing along the Alaska Peninsula, off Kodiak Island, and in Cook Inlet was good. Unlike Western Alaska, all species were scarce in Southeastern Alaska, Washington, Oregon, and California. The total pack of salmon amounted to 2.9 million cases -- 447 thousand cases more than was packed in 1959. In Alaska the pack was up almost 900 thousand cases but in Washington, Oregon, and California it was down from 687 thousand cases in 1959 to only 263 thousand cases.

- Mackerel, Pacific and Jack.....Supplies of mackerel were plentiful, and canning of this item boomed sharply. The gain was all in jack mackerel. Landings of these fish (74.9 million pounds) were almost double those of 1959, while Pacific mackerel maintained a production of about 37 million pounds. The combined catch of the two species amounted to 112 million pounds -- 37 million pounds greater than in 1959. The canned pack increased from 587 thousand cases in 1959 to 935 thousand cases in 1960.

- Halibut.....Receipts of halibut landed by domestic fishermen at West Coast ports totaled 51 million pounds (round weight), slightly under the 54 million pounds landed in 1959. Canadians took more fish than in the previous year. This resulted in United States-Canadian North Pacific landings of 71.8 million pounds (landed weight) and established a new record for this international fishery.

- Sardines, Pacific.....The sardine season was again a failure. The catch (only 58 thousand pounds) was 17 thousand pounds less than in 1959 and only a fraction of the record 1.5 billion-pound catch taken in 1936. In only three previous years since 1917 (1952, 1953, and 1957) has the catch been lower. The pack of canned fish totaled only 616 thousand cases and was one of the half-dozen smallest packs canned since 1921. Good weather provided ideal fishing conditions but the fish failed to appear in appreciable numbers.

- Herring, Sea.....Production in Alaska totaled 78.7 million pounds -- 29 million pounds less than in 1959. As a result of the sharp decline in the catch, production of meal amounted to only 6 thousand tons -- about 2 thousand tons less than in 1959. The production of herring oil was down from 1.8 million gallons in 1959 to 1.4 million gallons.

UNITED STATES CATCH - Continued

REVIEW, 1960 - Continued

Landings of these fish in Maine increased from 117 million pounds in 1959 to 152 million pounds in 1960. Most of the catch was used in the canning of sardines. The Maine pack of sardines amounted to 2.0 million cases, about 244 thousand cases more than in 1959.

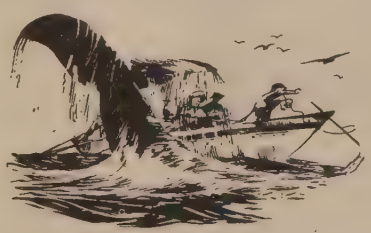
- Shrimp.....The domestic catch amounted to 249 million pounds -- 8.5 million pounds more than in 1959 but nearly 20 million pounds less than the record 1954 catch of 268 million pounds.
  Production in the South Atlantic and Gulf States was up 17 million pounds. Most of the increase was at Florida, Louisiana, and Georgia ports. Brown shrimp continued to dominate the catches in Louisiana; the early spring runs were excellent although the size was small. The fall run of white shrimp improved but was by no means the size of runs in former years. Catches were somewhat improved on the Campeche Banks. On the Pacific Coast, production was down sharply totaling 12 million pounds, nearly 9 million pounds less than in 1959.

- Oysters.....Production amounted to only 58 million pounds of meats and was 63 percent less than the 1908 production of 152 million pounds. The 1960 catch was the smallest in over 100 years.
  In New England the catch was only 8 percent of the 4.7 million pounds taken in 1950. Production in New York, New Jersey, and Delaware was only 6 percent of the 1950 take of 18 million pounds. The Chesapeake States' production was 9 million pounds less than the previous 10-year average landings. The major portion of the decline in 1960 occurred in the Chesapeake States.

- Crabs.....Total United States landings amounted to a record 205.6 million pounds passing the former record of 174.6 million pounds by nearly 31 million pounds. The East Coast blue crab fishery and the West Coast king crab fishery both produced record catches. The canned crabmeat industry packed 205 thousand cases, second only to the 1948 record pack of 221 thousand cases.

PRINCIPAL PORTS

San Pedro, California was the leading United States ports in 1960. Landings of fish and shellfish amounted to 376.7 million pounds valued at 31.7 million dollars to the fishermen. Lewes, Delaware was second with 280.7 million pounds followed by Empire, Louisiana with 214.2 million pounds. Reedville, Virginia dropped from first place in 1959 to seventh in 1960. While New Bedford, Massachusetts ranked far below many other ports in volume, it was second to San Pedro in value of the catch (13.2 million dollars). The predominance of high-priced sea scallops was responsible for New Bedford taking second place in value.



UNITED STATES CATCH - Continued

REVIEW, 1960 - Continued

MANUFACTURED FISHERY PRODUCTS

- Canned Fish and Shellfish.....Canned fishery products packed for human consumption amounted to 669.5 million pounds -- nearly 42 million pounds more than in the previous year. Packs of tuna (301.4 million pounds), animal food (421.6 million pounds), and clam products (50.6 million pounds) established new records. There were increases in the packs of salmon, mackerel, Maine sardines, crabmeat, and shrimp while the packs of oysters, squid, and miscellaneous items were less than in 1959.

- Fish Meal.....There were 290 thousand tons of fish meal produced in the United States. This was approximately 17 thousand tons below the record 307 thousand tons produced in 1959. Menhaden was the major fishery contributing to the reduction industry and accounted for 75 percent of the 1960 production. The yield of Pacific sardine meal was about the same as in 1959. Tuna and mackerel meal was slightly higher while herring meal dropped 3 thousand tons.

- Fish Oils.....There were 28 million gallons of fish and fish-liver oils produced -- nearly 3 million gallons above the 1959 production. The 1960 catch of menhaden -- the major item contributing to this industry -- was less than in the previous year. However, the high average oil content in the fish resulted in a total yield that exceeded that of 1959. The production of Pacific sardine oil, tuna and mackerel, and unclassified oil declined 477 thousand gallons compared with 1959.

- Fish Solubles.....The production of fish solubles and homogenized-condensed fish (98.9 thousand tons) was down about 66 thousand tons. The decline resulted from a drop in the market for both fish meal and solubles. This caused a decline in the manufacture of homogenized-condensed fish and reduced production of fish meal -- of which solubles are a byproduct. Some firms added solubles to their meal in order to dispose of them. This caused the production to be reported as meal rather than as solubles.

- Packaged Fish.....Production of fresh and frozen packaged fish fillets and steaks totaled 152.6 million pounds valued at 48.3 million dollars to the processors. Compared with 1959, this represented an increase of 5.3 million pounds and 2.1 million dollars. The domestic production of groundfish fillets amounted to 93.8 million pounds. This was slightly above the 91.1 million pounds produced in 1959 and nearly 55 million pounds below the 148.8 million-pound peak production of 1951.

- Fish Sticks and Portions.....Fish stick production totaled a record 65 million pounds. Fish portions also established a record of 48 million pounds. The growth of the fish stick and portion industry is an outstanding example of how markets for fish have been expanded through developments of new products. Unfortunately, the development of the industry has not greatly affected the domestic catch of groundfish since imported blocks of groundfish fillets are used almost entirely in the manufacture of sticks and portions.

UNITED STATES CATCH - Continued

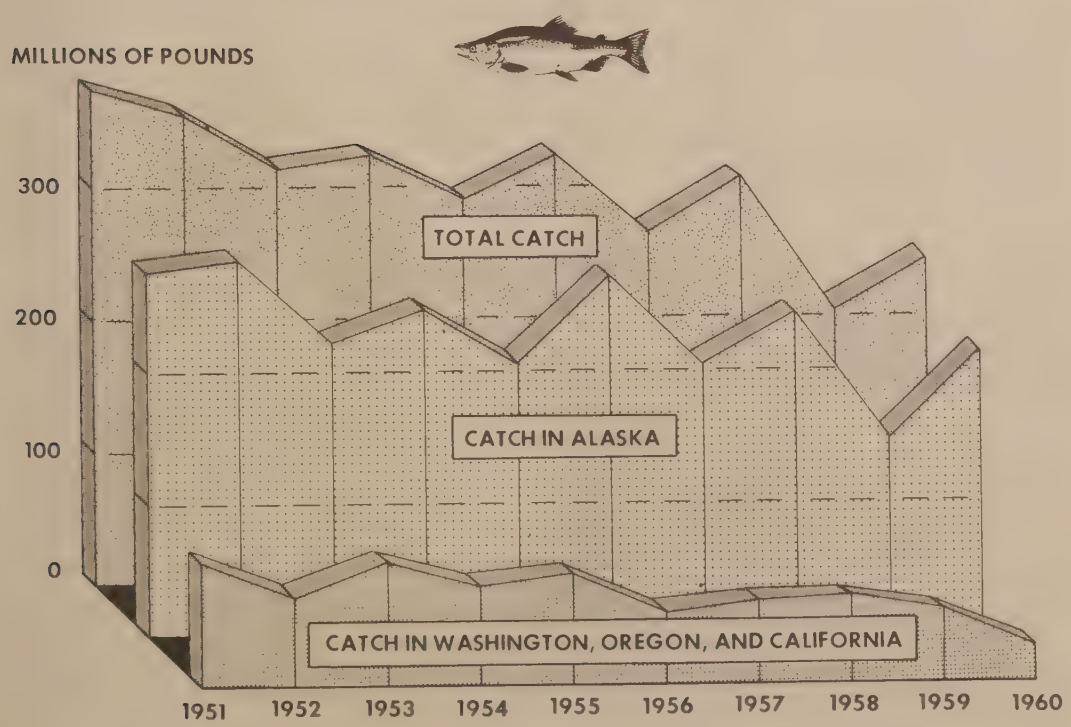
REVIEW, 1960 - Continued

FOREIGN TRADE

- Imports.....Edible fishery products imported into the United States were about 47 million pounds less than the record 1.1 billion pounds received in 1959. Items received in considerably less volume included frozen groundfish fillets, frozen light meat tuna, and canned salmon. Items received in greater volume included frozen albacore tuna, frozen spiny lobsters, shrimp, and canned oysters.
  Imports of fish meal during the first five months of 1960 were 35 thousand tons less than for the same period in 1959. However, shipments picked up sharply in the last half of the year and a total of 132 thousand tons of meal was received -- about the same as in 1959. Imports of solubles amounted to 3 thousand tons -- far less than the 27 thousand tons received in the previous year.

- Exports.....Edible fishery products exported from the United States in 1960 were about 20 million pounds less than the 81 million pounds shipped abroad in 1959. The decline was due largely to reduced exports of canned sardines, salmon, and squid. Exports of fish oil, amounting to nearly 144 million pounds, were almost identical with those exported in 1959.

PACIFIC SALMON CATCH, 1951 - 1960



UNITED STATES CATCH - Continued

SUMMARY OF FISHERIES, 1960

Item	1960 1/		1959	
Employment:	Number		Number	
Fishermen	(2)		128,985	
Fishing Craft:				
Vessels (5 net tons and over)	(2)		12,109	
Boats	(2)		63,192	
Wholesale and Manufacturing:				
Shoreworkers	(2)		92,650	
Plants	(2)		4,372	
Per Capita Consumption	Pounds 10.5		Pounds 10.7	
Catch:	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
New England	851,900	60,600	933,206	66,236
Middle Atlantic	795,300	21,700	760,429	22,763
Chesapeake	420,600	32,400	589,356	38,445
South Atlantic	363,500	20,000	468,712	18,870
Gulf	1,265,500	85,000	1,154,951	77,640
Pacific	1,080,000	110,300	1,055,250	104,186
Great Lakes	65,000	6,900	65,817	7,104
Mississippi River	77,000	7,600	77,662	7,628
Hawaii	11,200	2,500	16,570	3,179
Total	4,930,000	347,000	5,121,953	346,051
Manufactured Products:				
Canned:				
Human food	669,501	338,491	627,591	310,262
Animal food	421,597	43,961	346,102	37,077
Packaged Fish (fillets and steaks):				
Groundfish (incl. Ocean perch)	93,793	25,328	91,133	24,735
Other	58,783	22,926	56,104	21,435
Total	152,576	48,254	147,237	46,170
Fish Sticks	65,059	28,725	60,378	28,611
Fish Portions	48,300	17,162	37,147	13,138
Byproducts:				
Meal	579,432	25,331	613,102	35,926
Solubles 3/	197,858	4,021	330,717	10,043
Oil	208,942	13,336	187,334	13,092
Foreign Trade:				
Imports:				
Edible	1,066,622	307,395	1,113,624	311,033
Nonedible	-	48,540	-	55,467
Total	-	355,935	-	366,500
Exports:				
Edible	61,454	25,623	80,688	26,747
Nonedible	-	15,233	-	17,495
Total	-	40,856	-	44,242

1/ Preliminary.

2/ Data not available.

3/ Includes homogenized-condensed fish.

CATCH OF CERTAIN SPECIES, 1960 and 1959

Species	1960 1/		1959		Record Production	
Fish	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Year	Thousand Pounds
Anchovies, California	5,100	50	7,174	100	1953	86,044
Cod, Atlantic	39,600	2,600	46,481	3,312	1880	294,351
Flounders	130,300	13,000	121,566	12,631	1948	138,924
Haddock	118,600	9,400	112,629	10,939	1929	293,809
Hake, white	5,800	300	5,230	252	1898	39,900
Halibut, Pacific	50,700	5,700	53,713	7,765	1915	66,707
Herring, sea:						
Alaska	78,700	900	107,444	1,294	1937	263,200
Maine	152,300	2,500	117,150	1,880	1950	185,481
Mackerel:						
Jack	74,900	1,500	37,507	897	1952	146,522
Pacific	36,800	700	37,602	958	1935	146,427
Menhaden	1,999,000	19,800	2,202,732	26,213	1959	2,202,732
Mullet	41,100	2,500	41,097	2,424	1902	43,385
Ocean perch, Atlantic	141,400	5,400	136,703	5,665	1951	258,320
Pollock	22,400	700	24,545	983	1938	40,694
Salmon, Pacific	241,000	42,900	201,684	35,741	1936	790,884
Sardine, Pacific	57,500	1,200	74,367	1,475	1936	1,502,299
Scup or porgy	48,500	2,700	47,173	2,884	1960	48,500
Sea trout	9,600	1,500	10,739	1,713	1908	49,869
Snappers, red	11,900	3,100	12,058	3,156	1902	23,457
Tuna, Pacific:						
Albacore	39,900	6,500	46,295	8,633	1950	72,514
Bluefin	13,100	1,900	16,516	2,450	1958	32,315
Skipjack	54,300	5,800	110,895	11,899	1954	167,777
Yellowfin	189,600	22,800	108,939	14,247	1948	207,420
Total	296,900	37,000	282,645	37,229	1950	401,809
Whiting	111,400	2,500	115,192	2,335	1957	133,041
Shellfish						
Clams	48,600	11,500	44,995	11,504	1960	48,600
Crabs:						
Blue	143,600	8,700	116,488	8,047	1960	143,600
Dungeness	33,400	4,600	36,947	5,032	1948	45,823
King	28,600	2,300	18,840	1,478	1960	28,600
Lobsters, Maine	24,000	11,000	22,329	11,253	1889	25,002
Oysters	57,700	27,000	64,710	29,483	2/1908	152,046
Scallops, sea	26,600	9,300	24,644	11,805	1960	26,600
Shrimp: (heads-on)						
South Atlantic and Gulf States	236,500	66,100	219,509	56,875	1954	265,799
Alaska	7,400	300	13,052	506	1959	13,052
Washington	1,800	170	3,046	313	1958	6,730
Oregon	900	90	2,734	246	1959	2,734
California	2,000	210	1,820	184	1899	6,495
Other	100	30	21	9	-	-
Total	248,700	66,900	240,182	58,133	1954	268,316
Squid, California	2,600	50	19,653	342	1946	38,024
Other fish, shellfish, etc.	642,700	49,700	737,734	49,128	-	-
Grand Total	4,930,000	347,000	5,121,953	346,051	1956	5,268,000

1/ Preliminary. 2/ First year in which an oyster survey was made in all regions.
Note:--Does not include landings of tuna by United States vessels in Puerto Rico.

UNITED STATES CATCH - Continued

LANDINGS, 1960 and 1959

Area	1960 1/		1959	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Maine:				
Portland	54,200	2,500	62,524	2,549
Rockland	44,200	1,900	43,514	1,947
Other ports	196,300	15,700	159,920	15,075
Total	294,700	20,100	265,958	19,571
Massachusetts: 2/				
Boston	110,400	9,600	113,257	11,250
Gloucester	192,400	6,300	228,722	7,118
New Bedford	85,100	13,200	107,961	15,746
Other ports	56,000	2,700	50,999	2,731
Total	443,900	31,800	500,939	36,845
Rhode Island	68,500	3,600	117,793	4,285
New York	126,200	8,700	115,170	8,875
New Jersey	376,200	9,500	359,504	10,093
Delaware	3/289,600	3/3,400	285,755	3,795
Maryland	66,800	13,000	63,050	12,695
Virginia	353,800	19,500	526,306	25,750
North Carolina	255,800	6,800	342,612	8,242
South Carolina	24,300	3,600	23,443	2,936
Georgia	28,000	3,800	21,594	2,656
Florida	190,300	25,900	212,950	23,227
Alabama	11,900	2,300	14,022	2,968
Mississippi	312,300	7,800	252,947	6,246
Louisiana	564,900	26,700	545,758	24,046
Texas	235,500	27,300	210,337	26,189
Ohio	17,800	1,600	19,518	1,733
Alaska:				
Halibut	28,400	3,200	29,974	3,899
Herring	78,700	900	107,444	1,294
Salmon	213,000	32,900	147,278	20,957
Other	42,700	3,200	38,827	2,637
Total	3/362,800	3/40,200	323,523	28,787
Washington	113,000	15,200	155,186	21,529
Oregon 2/	3/49,500	3/5,400	51,718	6,396
California 4/	543,200	48,700	513,428	46,599
Hawaii	3/11,200	3/2,500	16,570	3,179
Total	4,740,200	327,400	4,938,081	326,642
Other	3/189,800	3/19,600	183,872	19,409
Grand Total	4,930,000	347,000	5,121,953	346,051

1/ Preliminary.

2/ Landed weight.

3/ Partly estimated.

4/ Excluding whale products.

Note:--Does not include landings of tuna by United States vessels in Puerto Rico.

CATCH OF FISH AND SHELLFISH, 1921 - 1960

Year	Catch for Human Food	Catch for 1/ Industrial Products	Total		Average Price per Pound
	Million Pounds	Million Pounds	Million Pounds	Million Dollars	Cents
1921	1,451	804	2,255	(2)	(2)
1922	1,677	942	2,619	(2)	(2)
1923	1,807	919	2,726	(2)	(2)
1924	1,874	587	2,461	(2)	(2)
1925	2,029	862	2,891	(2)	(2)
1926	2,198	673	2,871	(2)	(2)
1927	2,172	634	2,806	(2)	(2)
1928	2,370	691	3,061	(2)	(2)
1929	2,601	890	3,491	(2)	(2)
1930	2,478	746	3,224	109	3.39
1931	2,129	501	2,630	77	2.94
1932	1,864	748	2,612	56	2.13
1933	2,086	911	2,997	(2)	(2)
1934	2,434	1,670	4,104	(2)	(2)
1935	2,583	1,552	4,135	(2)	(2)
1936	2,854	1,972	4,826	(2)	(2)
1937	2,703	1,650	4,353	101	2.32
1938	2,639	1,615	4,254	94	2.20
1939	2,713	1,732	4,445	97	2.17
1940	2,674	1,385	4,059	99	2.44
1941	3,062	1,838	4,900	129	2.63
1942	2,683	1,192	3,875	170	4.40
1943	2,737	1,425	4,162	204	4.90
1944	2,865	1,668	4,533	213	4.70
1945	3,167	1,431	4,598	270	5.87
1946	3,049	1,418	4,467	313	7.01
1947	3,020	1,329	4,349	312	7.16
1948	3,146	1,367	4,513	371	8.22
1949	3,305	1,499	4,804	343	7.13
1950	*3,307	1,594	4,901	347	7.09
1951	3,048	1,385	4,433	365	*8.23
1952	2,778	1,654	4,432	364	8.20
1953	2,519	1,968	4,487	356	7.94
1954	2,705	2,057	4,762	359	7.55
1955	2,579	2,230	4,809	339	7.05
1956	2,690	2,578	*5,268	372	7.06
1957	2,475	2,314	4,789	354	7.39
1958	2,651	2,096	4,747	*373	7.86
1959	2,369	*2,753	5,122	346	6.76
1960 3/	2,497	2,433	4,930	347	7.04

1/ Manufactured into meal, oil, fish solubles, homogenized-condensed fish, shell products, and used as bait and animal food.

2/ Not available.

3/ Preliminary.

* Record.

Note:--Does not include data on the Hawaiian catch prior to 1946.

UNITED STATES CATCH - Continued

LANDINGS AT CERTAIN UNITED STATES PORTS, 1960 1/

Port	Thousand Pounds	Thousand Dollars	Important Species
San Pedro, California.	376,700	31,700	Tuna, mackerel, Pacific sardines
Lewes, Delaware.	280,700	(2)	Menhaden
Empire, Louisiana.	214,200	(2)	Menhaden, shrimp, oysters
Pascagoula, Mississippi. . . .	212,900	(2)	Menhaden and other industrial fish
Cameron, Louisiana	203,900	(2)	Menhaden, shrimp
Gloucester, Massachusetts. . .	192,400	6,300	Whiting, ocean perch, industrial fish
Reedville, Virginia.	162,900	(2)	Menhaden
Port Arthur, Texas	145,600	(2)	Menhaden
Beaufort-Morehead City, N. C..	137,100	(2)	Menhaden
Boston, Massachusetts.	110,400	9,600	Haddock, pollock, cod
New Bedford, Massachusetts . .	85,100	13,200	Sea scallops, flounders
Portland, Maine.	54,200	2,500	Ocean perch, sea herring
Rockland, Maine.	44,200	1,900	Ocean perch, sea herring
San Diego, California.	41,400	4,900	Tuna
Astoria, Oregon.	30,400	(2)	-

1/ Preliminary. 2/ Data not available.

Note:--The largest landings made at a United States port occurred in 1950 when 848,235,000 pounds of fish and shellfish were landed in the San Pedro area. This catch was valued at $38,050,000 which was likewise the greatest value ever received by fishermen for a catch landed at a United States fishing port in a single year.

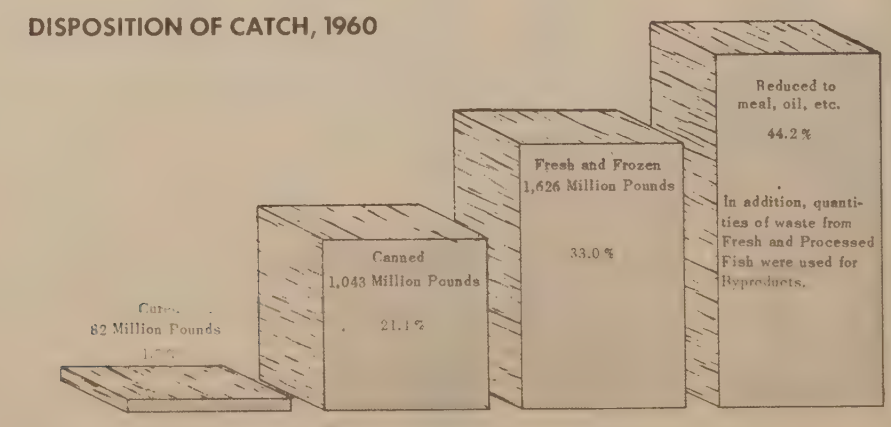
DISPOSITION OF CATCH, 1960 AND 1959

(Round weight)

End Use	1960 1/		1959	
	Million Pounds	Percent	Million Pounds	Percent
Fresh and frozen	1,626	33.0	1,539	30.0
Canned	1,043	21.1	977	19.1
Cured.	82	1.7	83	1.6
Reduced to meal, oil, etc.	2,179	44.2	2,523	49.3
Total	4,930	100.0	5,122	100.0

1/ Preliminary.

Note:--Fresh and frozen and canned items include quantities used for bait and animal food.



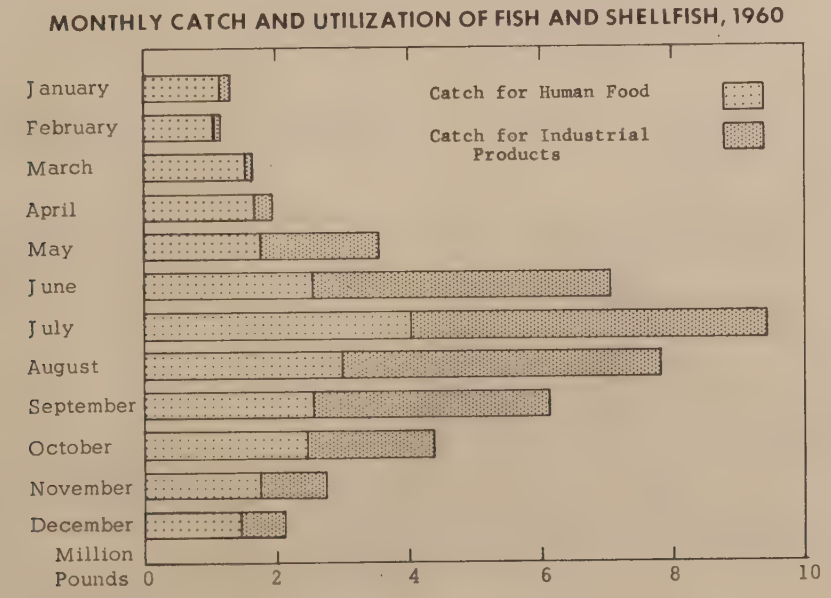
CATCH BY MONTHS

July was the peak month for both foodfish and industrial fish taken in the United States during 1960. During the period June-September, 48.5 percent of the year's foodfish and 75.2 percent of the industrial fish was caught. Total landings during this same period accounted for 61.7 percent of the 1960 catch. Sources from which data on current landings are obtained are shown in Fishery Leaflet 432, entitled "Fishery Statistical Publications of the Fish and Wildlife Service," which is available free upon request from the Office of Information, U. S. Fish and Wildlife Service, Washington 25, D. C.

MONTHLY CATCH AND UTILIZATION OF FISH AND SHELLFISH, 1960

Month	Catch for Human Food		Catch for 1/ Industrial Products		Total	
	Million Pounds	Percent	Million Pounds	Percent	Million Pounds	Percent
January	115.9	4.6	15.3	.6	131.2	2.7
February	108.0	4.3	9.3	.4	117.3	2.4
March	153.4	6.2	9.0	.4	162.4	3.3
April	166.4	6.7	29.2	1.2	195.6	4.0
May	178.3	7.1	179.1	7.4	357.4	7.2
June	254.4	10.2	450.8	18.5	705.2	14.3
July	401.5	16.1	541.8	22.2	943.3	19.1
August	300.1	12.0	481.5	19.8	781.6	15.9
September	254.0	10.2	358.2	14.7	612.2	12.4
October	245.5	9.8	193.9	8.0	439.4	8.9
November	176.3	7.1	97.0	4.0	273.3	5.5
December	143.2	5.7	67.9	2.8	211.1	4.3
Total	2,497.0	100.0	2,433.0	100.0	4,930.0	100.0

1/ Manufactured into meal, oil, fish solubles, homogenized-condensed fish, shell products, and used as bait and animal food.



UNITED STATES CATCH - Continued

DOMESTIC CATCH FROM WATERS OFF THE UNITED STATES
AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1960

Area and Species	Waters off U.S. Coast	High Seas off Foreign Coasts	Total
	Thousand Pounds	Thousand Pounds	Thousand Pounds
Atlantic and Gulf States:			
New England:			
Cod	30,727	3,773	34,500
Cusk	3,268	232	3,500
Flounders	60,774	526	61,300
Haddock	99,928	18,672	118,600
Hake, white	5,468	232	5,800
Halibut	182	118	300
Ocean Perch	24,944	116,456	141,400
Pollock	18,112	4,288	22,400
Whiting	102,987	413	103,400
Wolffish	756	344	1,100
Other	359,622	78	359,600
Total	706,768	145,132	851,900
Middle Atlantic, Chesapeake, and South Atlantic States, unclassified	1,579,400	-	1,579,400
Gulf:			
Snappers, red	7,883	3,017	10,900
Shrimp	178,144	27,156	205,300
Other	1,048,984	316	1,049,300
Total	1,235,011	30,489	1,265,500
Total Atlantic and Gulf States	3,521,179	175,621	3,696,800
Pacific Coast States:			
Alaska, Washington, and Oregon:			
Bottomfish (Washington and Oregon) 1/	37,982	35,018	73,000
Halibut	46,082	4,618	50,700
Salmon	239,765	1,235	241,000
Tuna	5,099	1	5,100
Crabs	14,500	-	14,500
Shrimp	10,081	19	10,100
Other	142,134	266	142,400
Total	495,643	41,157	536,800
California:			
Bonito	1,250	-	1,250
Groupers	-	250	250
Mackerel:			
Jack	74,900	-	74,900
Pacific	36,800	-	36,800
Sardine, Pacific	57,500	-	57,500
Sea bass:			
Black	-	240	240
White	1,185	15	1,200
Tuna	46,200	245,600	291,800
Yellowtail	225	25	250
Other	79,010	-	79,010
Total	297,070	246,130	543,200
Total Pacific Coast States	792,713	287,287	1,080,000
Great Lakes and Mississippi River States	142,000	-	142,000
Hawaii	11,200	-	11,200
Grand Total	4,467,092	462,908	4,930,000

1/ Principally flounders (including sole), cod, rockfishes, ocean perch, sablefish, and lingcod.

CATCH BY AREAS AND STATES

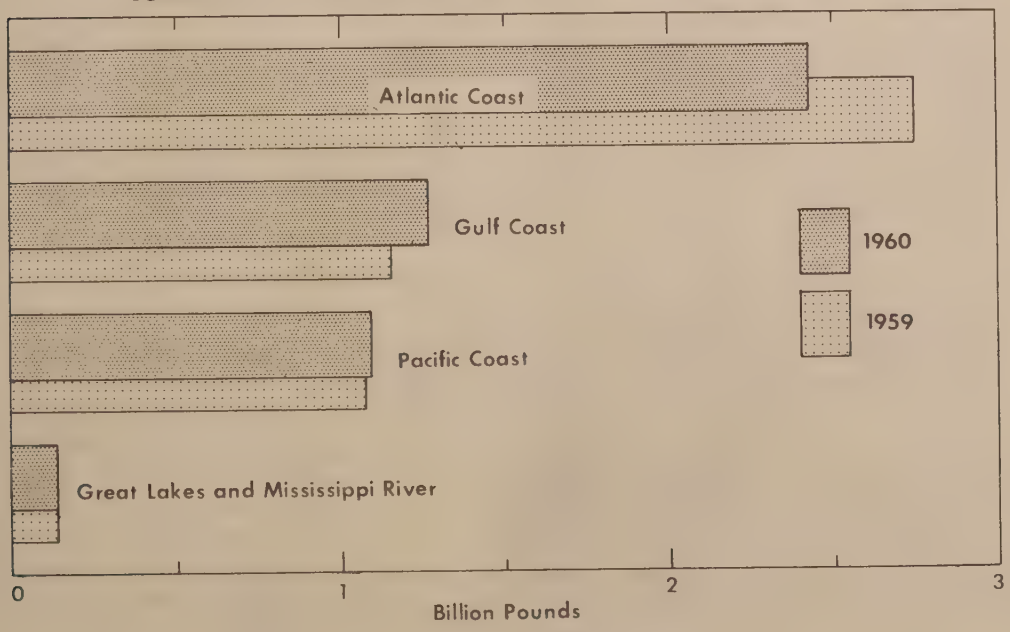
During 1960, the commercial catch of fish and shellfish landed at ports on the Atlantic Coast amounted to 49 percent of the United States total. The Gulf States accounted for 26 percent and the Pacific Coast States, 22 percent. The remainder of the catch came from the Great Lakes, the Mississippi River area, and the State of Hawaii.

SUMMARY OF CATCH BY AREAS, 1960 and 1959

Area	1960 1/		1959	
	Million Pounds	Percent	Million Pounds	Percent
Atlantic Coast	2,431	49.3	2,752	53.7
Gulf Coast	1,266	25.7	1,155	22.6
Pacific Coast	1,080	21.9	1,055	20.6
Great Lakes and Mississippi River	142	2.9	143	2.8
Hawaii	11	.2	17	.3
Total	4,930	100.0	5,122	100.0

1/ Preliminary.

SUMMARY OF UNITED STATES CATCH BY AREAS, 1960 AND 1959



Note:-- The catch for Hawaii is included with Pacific Coast.

CATCH BY AREAS

Although there was relatively little change in the total United States catch during the years from 1936 to 1960, there was wide variation in the catch of various regions. The Atlantic Coast catch increased from 33 percent of the total to 54 percent in 1959 and then declined to 49 percent in 1960. During the same period, the Gulf catch increased from 4 percent of the total to 26 percent. The gain in these regions was due largely to the tremendous expansion of the menhaden fishery.

In Washington, Oregon, and California, the production declined from 40 percent of the total to only 15 percent. Alaska accounted for only 7 percent of the total domestic catch in 1960 compared with 19 percent in 1936. The reduction was due mainly to the low level of the salmon fishery.

CATCH BY AREAS, VARIOUS YEARS, 1936 - 1960

(Million Pounds)

Area	1936	1940	1945	1950	1959	1960 1/
Atlantic Coast:						
Pounds	1,605	1,628	2,049	2,140	2,752	2,431
Percent	33	40	45	44	54	49
Gulf:						
Pounds	187	250	341	571	1,155	1,266
Percent	4	6	7	12	23	26
Washington, Oregon, and California:						
Pounds	1,926	1,453	1,428	1,515	731	717
Percent	40	36	31	31	14	15
Great Lakes and Mississippi River:						
Pounds	176	164	184	177	143	142
Percent	4	4	4	3	3	3
Alaska:						
Pounds	932	564	596	482	324	363
Percent	19	14	13	10	6	7
Hawaii:						
Pounds	(2)	(2)	(2)	16	17	3/11
Percent	-	-	-	-	-	-
Total	4,826	4,059	4,598	4,901	5,122	4,930

1/ Preliminary. 2/ Data not available. 3/ Partly estimated.

QUANTITY OF GEAR USED AND CATCH BY GEAR, 1959

Type of Gear	Number of Gear	Catch		Principal Species Taken
		Thousand Pounds	Percent of Total	
Purse Seines	1,783	2,621,695	51	Menhaden, Pacific sardines, salmon, sea herring, tuna, mackerel
Otter Trawls	12,046	1,182,090	23	Groundfish, industrial fish, shrimp
Hooks and Baits	8,943,454	382,887	7	Catfish, crabs, tuna, halibut
Gill Nets	29,761	189,565	4	Salmon, sea bass, lake fish, mullet
Pots and Traps	1,370,368	168,104	3	Crabs, eels, lobsters and sea bass
Pound Nets and Traps	8,989	135,586	3	Salmon, alewives
Dredges	6,334	108,670	2	Oysters, clams, crabs, sea scallops
Stop Nets and Seines	112	104,526	2	Carp, mullet, croaker, and sea herring
Haul Seines	1,708	80,876	2	
Other	-	147,954	3	-
Total	-	5,121,953	100	-

CATCH BY AREAS AND STATES, 1959

Area and State	Catch						Percentage in Order of Volume for Principal Catches of Fish and Shellfish
	Fish		Shellfish, etc.		Total		
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	
NEW ENGLAND:							
Maine	237,602	6,303	28,356	13,268	265,958	19,571	Sea herring 44%, ocean perch 28%
New Hampshire	120	16	911	398	1,031	414	Northern lobster 83%
Massachusetts	508,553	27,701	29,061	13,169	537,614	40,870	Haddock 20%, whiting 15%, industrial fish 1/, 13%, ocean perch 11%, flounders 9%
Rhode Island	113,136	2,418	4,657	1,867	117,793	4,285	Industrial fish 1/, 64%, menhaden 14%
Connecticut	9,645	357	1,165	739	10,810	1,096	Industrial fish 1/, 49%, scup or porgy 12%, flounders 12%
Total	869,056	36,795	64,150	29,441	933,206	66,236	
MIDDLE ATLANTIC:							
New York	105,359	3,622	9,811	5,253	115,170	8,875	Menhaden 66%, scup or porgy 12%
New Jersey	333,257	6,626	26,247	3,467	359,504	10,093	Menhaden 82%
Delaware	281,718	3,210	4,037	585	285,755	3,795	Menhaden 98%
Total	720,334	13,458	40,095	9,305	760,429	22,763	
CHESAPEAKE:							
Maryland	22,189	1,749	40,861	10,946	63,050	12,695	Blue crabs 37%, oysters 19%, clams 9%
Virginia	480,070	9,449	46,236	16,301	526,306	25,750	Menhaden 78%
Total	502,259	11,198	87,097	27,247	589,356	38,445	
SOUTH ATLANTIC:							
North Carolina	319,564	5,162	23,048	3,080	342,612	8,242	Menhaden 82%
South Carolina	9,127	340	14,316	2,596	23,443	2,936	Shrimp 32%, blue crabs 20%, menhaden 17%
Georgia	1,062	165	20,532	2,491	21,594	2,656	Blue crabs 59%, shrimp 35%
Florida, East Coast	69,279	3,127	11,784	1,909	81,063	5,036	Menhaden 58%, catfish and bullheads 10%, blue crabs 8%
Total	399,032	8,794	69,680	10,076	468,712	18,870	
Total Atlantic Coast	2,490,681	70,245	261,022	76,069	2,751,703	146,314	

See footnote at end of table.

(Continued on next page)

CATCH BY AREAS AND STATES, 1959 - Continued

Area and State	Catch						Percentage in Order of Volume for Principal Catches of Fish and Shellfish
	Fish		Shellfish, etc.		Total		
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	
GULF:							
Florida, West Coast	81,267	6,153	50,620	12,038	131,887	18,191	Shrimp 24%, mullet 24%, menhaden 13%
Alabama	4,016	642	10,006	2,326	14,022	2,968	Shrimp 57%, red snapper 13%, mullet 10%, blue crabs 8%
Mississippi	238,281	3,653	14,666	2,593	252,947	6,246	Menhaden 69%, industrial fish 1/, 24%
Louisiana	468,230	7,475	77,528	16,571	545,758	24,046	Menhaden 81%, shrimp 10%
Texas	123,164	2,524	87,173	23,565	210,337	26,189	Menhaden 56%, shrimp 40%
Total	914,958	20,447	239,993	57,193	1,154,951	77,640	
PACIFIC:							
Alaska	287,051	26,341	36,472	2,446	323,523	28,787	Salmon 46%, sea herring 33%
Washington	132,724	17,820	22,462	3,709	155,186	21,529	Salmon 27%, halibut 15%, flounders 9%, cod 8%, oysters 6%
Oregon	40,877	5,020	10,841	1,376	51,718	6,396	Flounders 27%, tuna 20%, Dungeness crabs 14%, rockfishes 12%
California:							
Fish and Shellfish, etc.	471,485	42,372	41,943	4,227	513,428	46,599	Tuna 50%, jack and Pacific mackerel 15%, sardines 14%
Whale Products	-	-	-	-	11,395	875	Meal 33%, oil 34%, meat 33%
Total	932,137	91,553	111,718	11,758	1,055,250	104,186	
GREAT LAKES:							
New York	499	91	-	-	499	91	Yellow perch 30%, bullheads 20%, yellow pike 18%
Pennsylvania	1,071	118	-	-	1,071	118	Yellow perch 73%
Ohio	19,518	1,733	-	-	19,518	1,733	Yellow perch 42%, sheepshead 23%, carp 15%
Michigan	23,323	2,681	-	-	22,323	2,681	Lake herring 29%, chubs 22%, smelt 18%
Indiana	1	(2)	-	-	1	(2)	Yellow perch 100%
Illinois	245	43	-	-	245	43	Yellow perch 50%, chubs 48%
Wisconsin	16,833	2,078	-	-	16,833	2,078	Chubs 36%, lake herring 21%, smelt 15%
Minnesota	5,327	360	-	-	5,327	360	Lake herring 45%, tullibee 24%
Total	65,817	7,104	-	-	65,817	7,104	

See footnotes at end of table.

(Continued on next page)

CATCH BY AREAS AND STATES, 1959 - Continued

Area and State	Catch						Percentage in Order of Volume for Principal Catches of Fish and Shellfish
	Fish		Shellfish, etc.		Total		
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	
MISSISSIPPI RIVER:							
Alabama	2,682	478	8,314	293	10,996	771	Mussel shells 76%, catfish 12%
Arkansas	5,619	849	128	45	5,747	894	Buffalofish 56%, carp 15%, catfish 15%
Illinois	7,202	729	114	4	7,316	733	Carp 38%, buffalofish 34%
Indiana	214	31	8	(2)	222	31	Catfish 40%, carp 25%
Iowa	4,013	484	-	-	4,013	484	Carp 36%, buffalofish 27%
Kansas	63	16	-	-	63	16	Carp 75%
Kentucky	2,296	296	734	17	3,030	313	Catfish 25%, mussel shells 24%, sheepshead 21%
Louisiana	9,589	1,393	1,229	359	10,818	1,752	Buffalofish 31%, catfish 30%
Minnesota	9,278	737	-	-	9,278	737	Carp 50%, bullheads 20%
Mississippi	1,547	245	26	12	1,573	257	Buffalofish 53%, catfish 24%
Missouri	354	35	-	-	354	35	Carp 42%, buffalofish 26%
Montana	74	5	-	-	74	5	Buffalofish 100%
Nebraska	372	39	-	-	372	39	Carp 67%, bullheads 13%
North Dakota	569	32	-	-	569	32	Bullheads 44%, suckers 22%, carp 22%
Oklahoma	454	49	-	-	454	49	Carp 44%, buffalofish 34%
South Dakota	2,893	160	-	-	2,893	160	Carp 34%, buffalofish 29%, sheepshead 19%
Tennessee	2,679	440	2,769	130	5,448	570	Mussel shells 51%, catfish 18%, buffalofish 14%
Texas	834	106	2	(2)	836	106	Buffalofish 59%, carp 30%
Wisconsin	13,560	642	1	(2)	13,561	642	Carp 57%, sheepshead 28%
Wyoming	45	2	-	-	45	2	Carp 100%
Total	64,337	6,768	13,325	860	77,662	7,628	
Hawaii	16,531	3,155	39	24	16,570	3,179	Tuna 86%
Grand Total	4,484,461	199,272	626,097	145,904	5,121,953	346,051	

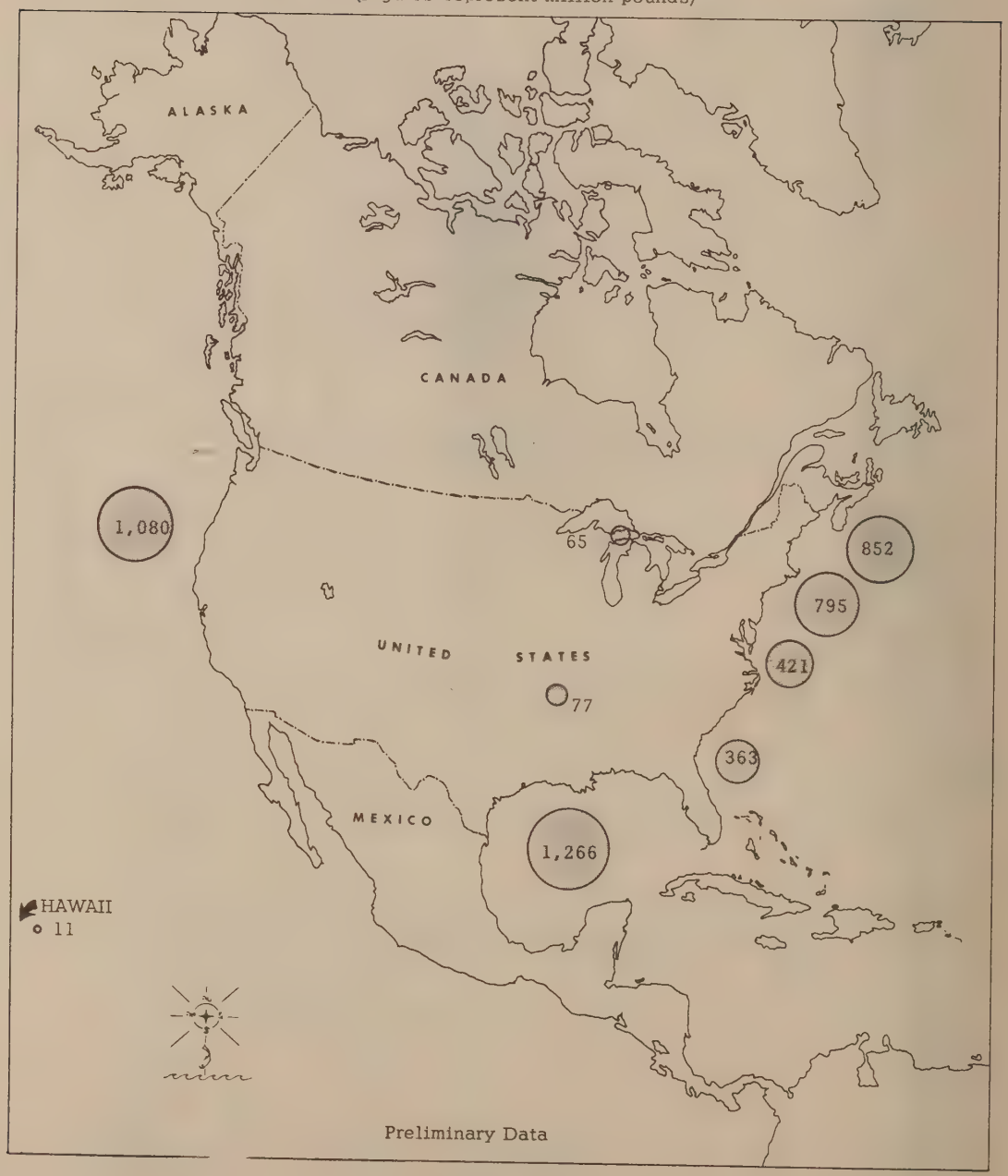
1/ Unclassified fish for bait, reduction and animal food.

2/ Less than 500 dollars.

UNITED STATES CATCH - Continued

UNITED STATES CATCH BY AREAS, 1960

(Figures represent million pounds)



RELATIVE VOLUME OF THE CATCH, BY SPECIES, 1959

Species	Quantity	Percent of Total	Record Production	
	Thousand Pounds	Percent	Year	Thousand Pounds
Menhaden	2,202,732	43.0	1959	2,202,732
Tuna	285,909	5.6	1950	391,454
Industrial fish 1/	247,980	4.9	1959	247,980
Shrimp	240,182	4.7	1954	268,334
Herring, sea:				
Atlantic	121,377	2.4	1902	200,598
Pacific	114,712	2.2	1937	263,200
Total	236,089	4.6	-	-
Salmon	201,684	3.9	1936	790,884
Crabs	174,630	3.4	1959	174,630
Ocean perch, Atlantic	136,703	2.7	1951	258,320
Flounders	121,566	2.4	1948	138,924
Whiting	115,192	2.2	1957	133,041
Haddock	112,629	2.2	1929	293,809
Sardine, Pacific	74,367	1.5	1936	1,502,299
Oysters	64,710	1.3	2/1908	152,046
Cod:				
Atlantic	46,481	.9	1880	294,351
Pacific	13,328	.3	1915	32,681
Total	59,809	1.2	-	-
Halibut, Pacific	53,713	1.0	1915	66,707
Alewives	51,143	1.0	1908	89,978
Scup or porgy	47,173	.9	1959	47,173
Clams	44,995	.9	1959	44,995
Mullet	41,097	.8	1902	43,385
Jack mackerel	37,699	.7	1952	146,522
Mackerel, Pacific	37,602	.7	1935	146,427
Catfish and bullheads	33,876	.7	1956	34,824
Carp	31,283	.6	1908	42,759
Lobsters, Northern	29,055	.6	1889	30,772
Rockfishes	27,905	.5	1945	57,686
Scallops, sea	24,644	.5	1959	24,644
Pollock	24,545	.5	1938	40,694
Squid	23,554	.5	1946	40,260
Buffalofish	17,138	.3	1950	25,873
Sheepshead, fresh-water	13,644	.3	1959	13,644
Herring, lake	12,542	.2	1899	59,914
Yellow perch	12,192	.2	1934	16,282
Mussel shells	11,986	.2	1908	81,869
Croaker	11,842	.2	1945	64,668
Chubs	11,212	.2	1958	12,108
Snapper, red	10,954	.2	1902	23,457
Butterfish	10,823	.2	1939	17,151
Smelt	9,833	.2	1958	13,303
Spot	9,302	.2	1952	15,863
Sablefish	8,795	.2	1945	17,750
Shad	8,586	.2	1890	43,000
Striped bass	8,204	.2	1959	8,204
Sea bass, black (Atlantic)	8,184	.2	1952	21,997
Ocean perch, Pacific	7,730	.2	1954	11,171
Lingcod	7,249	.1	1944	14,262
Spanish mackerel	7,218	.1	1945	11,593
Unclassified	152,023	2.9	-	-
Total	5,121,953	100.0	-	-

1/ Unclassified species for bait, reduction, and animal food.
2/ First year in which an oyster survey was made in all regions.

UNITED STATES CATCH - Continued

RELATIVE VALUE OF THE CATCH, BY SPECIES, 1959

Species	1959		Record Value	
	Value	Percent of Total		
	Thousand Dollars	Percent	Year	Thousand Dollars
Shrimp	58,133	16.8	1953	76,641
Tuna	37,429	10.8	1950	61,342
Salmon	35,741	10.3	1951	52,509
Oysters	29,483	8.5	1954	32,796
Menhaden	26,213	7.6	1956	28,425
Crabs	14,804	4.3	1959	14,804
Lobsters, Northern	14,468	4.2	1959	14,468
Flounders	12,631	3.7	1951	13,253
Scallops, sea	11,805	3.4	1959	11,805
Clams	11,504	3.3	1952	11,700
Haddock	10,939	3.2	1946	13,043
Halibut, Pacific	7,765	2.2	1956	9,013
Ocean perch, Atlantic	5,665	1.6	1951	12,597
Catfish and bullheads	5,497	1.6	1952	6,411
Cod:				
Atlantic	3,312	1.0	1948	4,742
Pacific	664	.2	1959	664
Total	3,976	1.2	-	-
Herring, sea:				
Atlantic	1,948	.6	1948	3,798
Pacific	1,441	.4	1947	2,152
Total	3,389	1.0	-	-
Snapper, red	2,888	.8	1959	2,888
Scup or porgy	2,884	.8	1951	2,994
Industrial fish 1/	2,632	.8	1959	2,632
Mullet	2,424	.7	1945	4,647
Whiting	2,335	.7	1951	2,903
Chubs	2,283	.7	1958	2,564
Buffalofish	2,272	.7	1952	3,564
Croaker	1,639	.5	1945	6,950
Sardine, Pacific	1,475	.4	1950	12,140
Striped bass	1,436	.4	1959	1,436
Sea trout or weakfish, spotted	1,358	.4	1952	1,781
Lobsters, spiny	1,268	.4	1957	1,500
Rockfishes	1,265	.4	1945	2,648
Carp	1,177	.3	1951	2,007
Scallops, bay	1,156	.3	1957	1,455
Sea bass, black (Atlantic)	1,128	.3	1952	2,206
Shad	1,122	.3	1945	2,680
Yellow perch	1,012	.3	1958	1,540
Yellow pike	991	.3	1951	2,152
Pollock	983	.3	1945	1,819
Jack mackerel	973	.3	1952	4,755
Mackerel, Pacific	958	.3	1957	1,231
Butterfish	922	.3	1958	971
Herring, lake	834	.2	1952	1,458
Groupers	792	.2	1945	1,038
Sablefish	767	.2	1946	1,834
Sheepshead, fresh-water	716	.2	1951	929
Spot	683	.2	1949	975
Alewives	664	.2	1958	881
Unclassified	15,572	4.4	-	-
Total	346,051	100.0	-	-

1/ Value of unclassified species for bait, reduction, and animal food.

EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS, 1959, 1950, 1940, AND 1930

Item	1959	1950	1940	1930
	Number	Number	Number	Number
Persons employed:				
Direct:				
Fishermen	128,985	161,463	124,795	119,716
Transporters	2,251	4,916	3,955	4,501
Shore workers	92,650	102,015	90,215	78,996
Indirect:				
Allied industries (gear, manufacture, boat building, processing equipment, etc.)	310,000	300,000	210,000	200,000
Total	533,886	568,394	428,965	403,213
Craft utilized:				
Fishing:				
Vessels (5 net tons and over)	12,109	11,496	5,562	4,374
Motor boats	54,735	46,067	31,055	35,437
Other boats	8,457	34,747	35,193	37,961
Transporting:				
Vessels (5 net tons and over)	883	1,313	1,325	1,419
Motor boats	282	827	726	1,363
Total	76,466	94,450	73,861	80,554
Vessels documented for fishing for the first time during the year	479	812	320	(1)
Fishery shore establishments:				
Pacific Coast States	545	700	579	569
Atlantic Coast and Gulf States	2,934	2,699	2,038	2,024
Great Lakes and Mississippi River States	872	484	438	402
Hawaii	21	(1)	(1)	(1)
Total	4,372	3,883	3,055	2,995

1/ Not available.

FUR SEALS

TAKE AND AVERAGE VALUE OF PRIBILOF ISLANDS FUR-SEAL SKINS, 1956-1960

Year	Male		Female		Total
	Number	Average Value 1/	Number	Average Value 1/	Number
1956	95,849	$99.95	26,977	$ -	122,826
1957	46,195	68.22	47,423	-	93,618
1958	47,860	85.28	31,059	-	78,919
1959	30,176	102.20	27,634	-	57,810
1960	36,320	103.31	4,296	35.69	40,616

1/ Average value received per skin at fall auction.
Note: Large numbers of female fur-seal skins have been taken since 1955. Few were sold prior to 1960. At the fall auction in 1960, a total of 6,338 sheared, female skins were sold at an average of $35.69 per skin. Studies are being continued as to the best method of disposal of these skins.

PER CAPITA CONSUMPTION

The per capita consumption of fish and shellfish in the United States amounted to 10.5 pounds (edible weight). This was slightly less than in 1959 and 1958. Consumption of fresh and frozen and cured products remained unchanged from 1959, while that of canned items was slightly less.

PER CAPITA CONSUMPTION OF FISH AND SHELLFISH, 1957 - 1960
(Edible weight)

Item	1960 1/	1959 1/	1958 2/	1957
	Pounds	Pounds	Pounds	Pounds
Fish and Shellfish:				
Fresh and frozen	5.9	5.9	5.8	5.6
Canned	4.0	4.2	4.2	3.9
Cured	.6	.6	.6	.6
Total	10.5	10.7	10.6	10.1

1/ Preliminary. 2/ Revised.
Note: Prepared in cooperation with the Agricultural Marketing Service, U.S. Department of Agriculture.

UNITED STATES PER CAPITA SUPPLY OF CERTAIN FISHERY ITEMS, VARIOUS YEARS, 1936 - 1960
(Pounds of edible meat)

Year	Mackerel, Pacific and Jack	Salmon	Sardines 1/ Pacific and Maine	Tuna 2/	Groundfish & Ocean Perch Fillets & Blocks 3/	Shrimp 4/
	Canned	Canned	Canned	Canned	Fresh and Frozen	All Preparations
1936	0.43	3.07	1.26	0.45	0.74	0.35
1937	0.29	2.43	1.16	0.50	0.74	0.45
1938	5/ 0.33	2.32	0.81	0.49	0.77	0.45
1939	5/ 0.30	1.89	1.29	0.63	0.79	0.48
1940	5/ 0.48	1.61	0.77	0.61	0.81	0.52
1946	5/ 0.24	1.18	1.03	0.69	1.13	0.75
1947	5/ 0.47	1.46	0.64	0.79	1.13	0.69
1948	5/ 0.32	1.57	1.34	0.89	1.25	0.68
1949	0.26	1.70	1.00	0.90	1.31	0.71
1950	0.41	1.36	1.55	1.32	1.29	0.78
1951	0.26	1.44	0.40	1.05	1.56	0.91
1952	0.42	1.43	0.37	1.28	1.44	0.97
1953	0.14	1.25	0.60	1.38	1.38	0.96
1954	0.09	1.27	0.85	1.39	1.48	0.98
1955	0.15	0.99	0.39	1.42	1.49	1.02
1956	0.29	1.15	0.35	1.59	1.39	0.98
1957	0.25	1.01	0.45	1.59	1.52	0.87
1958	0.11	1.08	0.59	1.78	1.49	0.95
1959	0.14	0.95	0.61	1.89	1.45	1.14
1960 6/	0.18	0.74	0.47	2.05	1.42	1.19

1/ Includes imports of some herring for the years prior to 1950.
2/ Includes imports of bonito and yellowtail for the years prior to 1949. Data on exports were not available for these years.
3/ Imports and frozen inventories not available prior to 1939.
4/ Frozen inventories not available prior to 1939. Weight based on uncooked edible meat.
5/ Exports not available.
6/ Preliminary.
Note:--This table was compiled from available data on domestic production, imports, and exports. In addition, inventory records of frozen items were used in compiling data on shrimp, and groundfish (including ocean perch) fillets and blocks; estimated packers' canned inventories were used for tuna for all years, and for mackerel, salmon, and sardines for 1958 - 1960.

WHOLESALE AVERAGE PRICES AND INDEXES FOR EDIBLE FISH AND SHELLFISH, DECEMBER 1960

Group, Subgroup, and Item Specification	Point of Pricing	Unit	Avg. Prices 1/ ($)		Indexes (1947-49-100)			
			Dec. 1960	Nov. 1960	Dec. 1960	Nov. 1960	Oct. 1960	Dec. 1959
All Fish & Shellfish (Fresh, Frozen, and Canned)					133.2	131.5	129.4	122.7
Fresh & Frozen Fishery Products					150.0	146.9	143.7	136.4
Drawn, Dressed, or Whole Finfish:					173.6	165.4	166.4	154.8
Haddock, lge., offshore, drawn, fresh	Boston	lb.	.18	.13	178.0	132.6	141.5	163.9
Halibut, West., 20/80 lbs., dressed., fresh or frozen	New York	lb.	.30	.30	92.8	92.3	94.4	96.4
Salmon, king, large & medium dressed, fresh or frozen	New York	lb.	.90	.90	202.2	202.2	202.2	171.3
Whitefish, Lake Superior, drawn, fresh	Chicago	lb.	.75	.75	185.9	185.9	183.5	115.3
Whitefish, Lake Erie pound or gill net, round, fresh	New York	lb.	.75	.70	151.7	141.6	149.7	177.0
Yellow pike, Lake Michigan & Huron, round, fresh	New York	lb.	.50	.70	117.3	164.1	134.8	138.4
Processed, Fresh (Fish& Shellfish):					140.8	141.7	135.3	134.6
Fillets, haddock, small, skins on, 20-lb. tins	Boston	lb.	.52	.41	175.2	139.5	103.8	166.7
Shrimp, large (26-30 count), headless, fresh	New York	lb.	.73	.70	114.5	109.8	102.7	101.9
Oysters, shucked, standards	Norfolk	gal.	7.50	7.50	185.6	185.6	185.6	173.2
Processed, Frozen (Fish & Shellfish):					115.0	119.6	115.7	106.8
Fillets: Flounder, skinless 1-lb. package	Boston	lb.	.39	.40	102.1	103.4	102.1	98.1
Haddock, small, skins on, 1-lb. package	Boston	lb.	.34	.34	106.7	106.7	91.0	97.3
Ocean perch, skins on, 1-lb. package	Boston	lb.	.30	.30	118.8	118.8	112.8	108.8
Shrimp, large (26-30 count), 5-lb. package	Chicago	lb.	.69	.74	106.5	114.2	114.2	98.4
Canned Fishery Products:					109.8	110.1	109.6	103.8
Salmon, pink, No. 1 tall (16 oz.) 48 cans/cs	Seattle	cs.	27.50	27.50	143.5	143.5	140.9	127.8
Tuna, light meat, chunk, No. 1/2 tuna (6-1/2 oz.), 48 cans/cs	Los Angeles	cs.	11.00	11.10	79.3	80.0	80.0	77.9
Sardines, California, tom. pack, No. 1 oval (15 oz.), 48 cans/cs.	Los Angeles	cs.	7.65	7.65	89.8	89.8	91.0	93.9
Sardines, Maine, keyless oil, No. 1/4 drawn (3-3/4 oz.), 100 cans/cs	New York	cs.	8.50	8.50	90.5	90.5	93.1	93.1

1/ Represent average prices for one day (Monday or Tuesday) during the week in which the 15th of the month occurs. These prices are published as indicators of movement and not necessarily absolute level. Daily Market New Service "Fishery Products Reports" should be referred to for actual prices.

Source:--Bureau of Labor Statistics, U. S. Department of Labor.

CANNED PACK

The total pack of canned fishery products in the United States, American Samoa, and Puerto Rico during 1960 amounted to nearly 35.0 million standard cases valued at 383.3 million dollars to the packers. Compared with 1959, this represents an increase of 10 percent in volume and value. Production of canned tuna, fish for animal food and bait, and clam and clam products reached record-high productions. There were also increases in the packs of salmon, mackerel, Maine sardines, crabmeat, and shrimp. The packs of oysters and miscellaneous items were less than in 1959. No anchovies were canned during 1960.

PACK OF CERTAIN CANNED PRODUCTS, 1960 AND 1959

Item	Pounds Per Case	1960 1/	1959	Record Pack	
		Thousand Standard Cases	Thousand Standard Cases	Year	Thousand Standard Cases
Tuna	(2)	15,305	14,332	1960	15,305
Salmon	48	2,912	2,465	1936	8,965
Sardines:					
Maine	23.4	1,998	1,753	1950	3,844
Pacific	45	616	755	1950	5,071
Mackerel and jack mackerel	45	935	587	1947	1,755
Anchovies	31.25	-	4	1953	1,062
Crabmeat	19.5	205	151	1948	221
Oysters	14	411	421	1937	760
Shrimp	15	931	922	1937	1,435
Clams:					
Whole and minced	15	741	780	1959	780
Chowder and juice	30	1,316	1,182	1956	1,346
Animal food and bait	48	8,798	7,229	1960	8,798
Other	Various	795	1,200	-	-
Total	-	34,963	31,781	-	-

1/ Preliminary.

2/ Solid, 21 pounds; chunk, 19.5 pounds; and flakes and grated, 18 pounds.

Note:--Includes tuna canned in American Samoa, and Puerto Rico.

PRODUCTION OF CANNED FISHERY PRODUCTS, VARIOUS YEARS

Year	For Human Consumption		For Animal Food and Bait		Total
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Dollars
1936	756,593	93,759	12,980	805	94,564
1940	646,130	92,192	35,064	1,990	94,182
1948	718,665	329,210	63,543	6,971	336,181
1949	762,291	286,841	92,724	8,663	295,504
1950	836,485	317,464	130,630	13,871	331,335
1951	688,105	289,534	112,410	11,676	301,210
1952	647,322	290,161	167,891	15,668	305,829
1953	605,894	289,526	186,300	17,348	306,874
1954	669,315	312,598	193,314	18,420	331,018
1955	588,078	274,967	256,941	28,198	303,165
1956	657,642	316,082	321,777	33,434	349,516
1957	644,028	300,750	347,637	35,079	335,829
1958	738,169	345,616	361,083	42,966	388,582
1959	627,591	310,262	346,985	37,989	348,251
1960 1/	669,501	338,491	422,314	44,830	383,321

1/ Preliminary.

FISH MEAL, OIL, AND SOLUBLES

A total of 290 thousand tons of fish meal was produced in the United States and Territories during 1960. This production was approximately 17 thousand tons below the record 307 thousand tons produced in 1959. Menhaden was the major fishery contributing to the reduction industry and accounted for 75 percent of the 1960 total fish meal production. The yield of Pacific sardine meal in 1960 was about the same as that of 1959; herring meal dropped 3 thousand tons. Tuna and mackerel meal was slightly higher. The unclassified group of meal contributed a loss of 9 thousand tons in 1960.

There were 28 million gallons of fish and fish-liver oils produced in the United States during 1960 -- nearly 3 million gallons above 1959, but a drop of 12 million gallons or 30 percent below the record production of 40 million gallons manufactured in 1936. The 1960 catch of menhaden -- the major item contributing to this industry -- was less than the 1959 catch. However, average oil content in these fish resulted in a total oil yield that exceeded that of 1959. The production of Pacific sardine oil, tuna and mackerel, and the unclassified oil represented a drop of 477 thousand gallons compared with 1959.

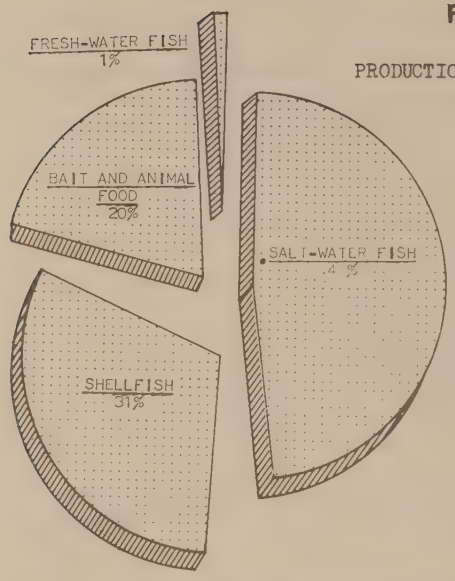
The yield of homogenized-condensed fish (9.6 million tons) was 19 million tons below 1959. The production of fish solubles (89.4 million tons) was about 47 million tons less than that reported in 1959.

PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1960 AND 1959

Product	1960 1/	1959	Record	
			Year	Quantity
	Thousand Tons	Thousand Tons		Thousand Tons
Meal:				
Menhaden	218	224	1959	224
Sardine, Pacific	3	3	1936	122
Herring:				
Alaska	6	8	1937	19
Maine	3	4	1952	7
Tuna and mackerel	26	25	1960	26
Unclassified	34	43	-	-
Total	290	307	1959	307
	Thousand Gallons	Thousand Gallons		Thousand Gallons
Oil:				
Menhaden	24,454	20,628	1960	24,454
Sardine, Pacific	144	188	1936	26,131
Herring	1,533	2,001	1937	5,623
Tuna and mackerel	507	601	1950	884
Unclassified	1,221	1,560	-	-
Total	27,859	24,978	1936	39,902
	Tons	Tons		Tons
Homogenized-condensed fish	9,552	28,697	1956	29,788
Fish solubles	89,377	136,662	1959	136,662

1/ Preliminary.

FROZEN FISH



PRODUCTION OF FROZEN FISH, 1960

The 1960 production of frozen fish and shellfish in the United States by firms reporting to the Bureau of Commercial Fisheries totaled 328.7 million pounds. Of this amount, salt-water fish comprised 48 percent; shellfish, 31 percent; bait and animal food from both fresh-water and salt-water fish, 20 percent; and fresh-water fish, 1 percent.

Leading products frozen during 1960 were: shrimp, 91.8 million pounds; bait and animal food, 66.8 million pounds; blocks, fillets, and steaks, 51.6 million pounds; headed and gutted whiting, 34.7 million pounds; and dressed halibut, 30.0 million pounds. An estimated 523 million pounds of live fish and shellfish were required to produce the 1960 production of frozen fishery items.

FREEZINGS AND HOLDINGS OF FISH AND SHELLFISH, 1960 and 1959

Item	1960	1959	Record	
	Thousand Pounds	Thousand Pounds	Year	Thousand Pounds
Freezings:				
Leading items:				
Bait and animal food	66,768	54,325	1960	66,768
Blocks, fillets, and steaks:				
Ocean perch	25,729	27,379	1951	71,400
Haddock	8,884	11,233	1950	25,224
Other	16,984	18,822	-	-
Round, dressed, etc.:				
Whiting	34,664	37,704	1951	45,520
Halibut	29,995	34,614	1954	35,241
Salmon	9,896	9,659	1945	30,009
Other	34,764	33,357	-	-
Shellfish:				
Shrimp	91,792	98,376	1959	98,376
Other	9,265	11,133	-	-
Total all fishery products	328,741	336,602	1959	336,602
High month	(July) 45,695	(July) 48,844	-	-
Low month	(Feb.) 11,481	(Feb.) 12,142	-	-
Holdings:				
High month	(Nov.) 237,163	(Nov.) 242,153	-	-
Low month	(Apr.) 133,765	(Mar.) 141,027	-	-

FISH STICKS

The United States 1960 production of fish sticks totaled 65.1 million pounds valued at 28.7 million dollars to the processors. This was 4.7 million pounds more than the 1959 production. Cooked sticks (60.3 million pounds) accounted for 93 percent of the production. The remaining production consisted of raw (uncooked) sticks.

During the year, 24 of the 40 producing firms were located in the Atlantic Coast States and manufactured 53.2 million pounds of fish sticks. Eight plants, located in the interior of the country and in the Gulf States, produced 6.2 million pounds. The remaining production was accounted for by 8 firms situated in the Pacific Coast States.

A fish stick is an elongated piece of boneless fish flesh, generally cut from a block of fillets, weighing not less than 3/4 of an ounce and not more than 1-1/4 ounces with the largest dimension at least three times that of the next largest dimension.

PRODUCTION OF FISH STICKS, BY MONTHS, 1960

Month	Cooked	Raw	Total	
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Dollars
January	5,190	314	5,504	(1)
February	6,174	361	6,535	(1)
March	7,252	585	7,837	(1)
April	4,484	380	4,864	(1)
May	3,422	278	3,700	(1)
June	4,081	281	4,362	(1)
July	3,319	365	3,684	(1)
August	4,582	424	5,006	(1)
September	4,886	531	5,417	(1)
October	6,069	485	6,554	(1)
November	5,841	433	6,274	(1)
December	5,031	291	5,322	(1)
Total	60,331	4,728	65,059	28,725

1/ Not available.

Note:--Cooked fish sticks were valued at 27,002 thousand dollars, raw at 1,723 thousand dollars.

PRODUCTION OF FISH STICKS, BY AREAS, 1960 and 1959

Area	1960		1959	
	Number of firms	Thousand Pounds	Number of firms	Thousand Pounds
Atlantic Coast States	24	53,176	25	50,561
Interior and Gulf States	8	6,161	5	5,412
Pacific Coast States	8	5,722	10	4,405
Total	40	65,059	40	60,378

FISH PORTIONS

The United States 1960 production of fish portions totaled 48.3 million pounds valued at 17.2 million dollars to the processors. This was 11.2 million pounds more than the 1959 production. Breaded portions (46.3 million pounds) accounted for 96 percent of the production. Unbreaded portions accounted for the remaining 4 percent.

During the year, 24 of the 40 producing firms were located in the Atlantic Coast States and manufactured 27.9 million pounds of fish portions. Eleven plants located in the interior of the country and in the Gulf States produced 19.2 million pounds. The remaining production was accounted for by 5 firms situated in the Pacific Coast States.

A fish portion is a uniformly shaped piece of boneless fish flesh, generally cut from a block of fillets, with a thickness of 3/8 of an inch or more, and which does not conform to the definition of a fish stick.

PRODUCTION OF FISH PORTIONS, BY MONTHS, 1960

Month	Breaded			Unbreaded	Total	
	Cooked	Raw	Total			
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Dollars
January	463	3,023	3,486	118	3,604	(1)
February	546	2,769	3,315	119	3,434	(1)
March	870	3,568	4,438	156	4,594	(1)
April	696	2,534	3,230	169	3,399	(1)
May	522	2,544	3,066	105	3,171	(1)
June	288	3,474	3,762	160	3,922	(1)
July	511	3,330	3,841	179	4,020	(1)
August	561	2,807	3,368	128	3,496	(1)
September	964	3,303	4,267	276	4,543	(1)
October	1,111	3,817	4,928	220	5,148	(1)
November	831	3,551	4,382	260	4,642	(1)
December	945	3,225	4,170	157	4,327	(1)
Total	8,308	37,945	46,253	2,047	48,300	17,162

1/ Not available.
Note: Breaded cooked fish portions were valued at 3,663 thousand dollars; raw at 12,594 thousand dollars. Unbreaded fish portions were valued at 905 thousand dollars.

PRODUCTION OF FISH PORTIONS, BY AREAS, 1960 AND 1959

Area	1960		1959	
	Number of firms	Thousand Pounds	Number of firms	Thousand Pounds
Atlantic Coast States	24	27,947	25	19,793
Interior and Gulf States	11	19,184	10	16,676
Pacific Coast States	5	1,169	4	678
Total	40	48,300	39	37,147

FISH STICKS AND PORTIONS

The growth of the fish stick and portion industry is an outstanding example of how markets for fish have been expanded through development of new products. Fish sticks reached volume production in 1953, and by 1954 had developed into a major industry. Since that year, the annual production has averaged over 59 million pounds. The fish portion industry developed later. In 1958--the first year for which data were collected--21.8 million pounds of fish portions were manufactured.

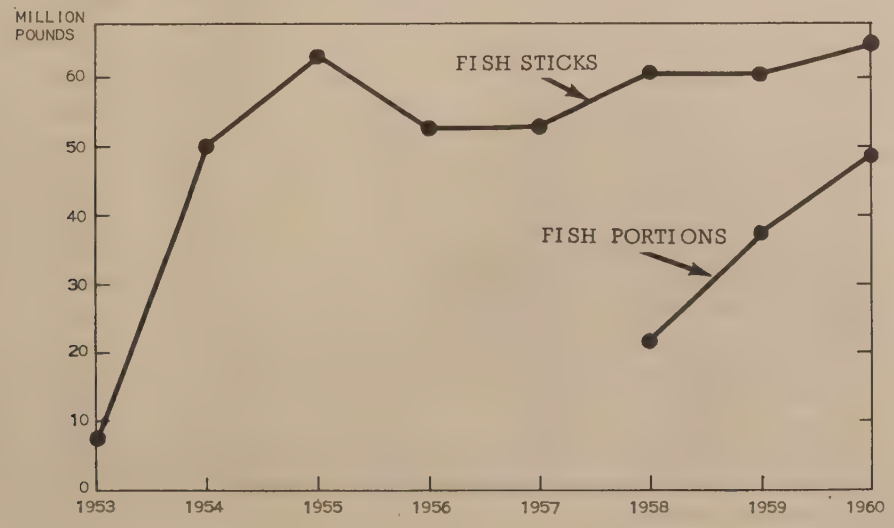
Fish stick production remained relatively steady after 1955, while fish portions rose sharply. Good markets for these products have kept many shore workers employed; however, development of the fish stick and portion industry has not greatly affected the domestic catch of groundfish since imported blocks of groundfish fillets are used almost entirely in the manufacture of both fish sticks and portions.

PRODUCTION OF FISH STICKS AND PORTIONS, 1953 - 1960

Year	Fish Sticks		Fish Portions	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
1953	7,502	4,176	(1)	(1)
1954	49,962	26,506	(1)	(1)
1955	63,046	*28,886	(1)	(1)
1956	52,818	23,193	(1)	(1)
1957	53,128	23,544	(1)	(1)
1958	61,011	27,000	21,790	7,972
1959	60,378	28,611	37,147	13,138
1960 2/	*65,059	28,725	*48,300	*17,162

1/ Not available. 2/ Preliminary. * Record.

Production of Fish Sticks and Portions, 1953 - 1960



MANUFACTURED FISHERY PRODUCTS - Continued

PACKAGED FISH

PRODUCTION OF PACKAGED FISH, 1960 1/

Item	Fresh		Frozen		Total	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Fillets	55,973	20,931	87,157	22,906	143,130	43,837
Steaks	49	25	9,397	4,392	9,446	4,417
Total	56,022	20,956	96,554	27,298	152,576	48,254

1/ Preliminary.

VALUE

VALUE OF MANUFACTURED FISHERY PRODUCTS AT PROCESSORS' LEVEL, 1960 AND 1959

(Produced from domestic catch and imported products)

Item	1960		1959	
	Thousand Dollars	Percent of Total	Thousand Dollars	Percent of Total
Canned	383,321	49.4	348,251	46.3
Packaged:				
Fillets and steaks	48,254	6.2	46,174	6.1
Fish Sticks 1/	28,717	3.7	28,611	3.8
Fish portions 1/	17,153	2.2	13,138	1.8
Other (fish and shellfish)	2/192,000	24.7	192,687	25.6
Cured	2/40,500	5.2	40,620	5.4
Industrial products	66,559	8.6	82,216	11.0
Total	776,504	100.0	751,697	100.0

1/ Manufactured from blocks of fillets.

2/ Estimated.

FISHERY BYPRODUCTS

PRODUCTION OF FISHERY BYPRODUCTS, VARIOUS YEARS

Year	Fish Meal	Fish 1/ Solubles	Marine-animal Oil	Value of Fish Meal, Oil and Solubles	Shell products	Other by-products	Grand Total
	Tons	Thousand Pounds	Thousand Gallons	Thousand Dollars	Thousand Dollars	Thousand Dollars	Thousand Dollars
1936	243,778	-	*39,902	23,025	10,554	1,390	34,969
1940	193,244	-	24,816	19,859	9,369	1,326	30,554
1948	199,544	47,589	17,084	56,393	16,509	6,964	79,866
1949	237,180	103,343	17,696	58,161	13,212	7,099	78,472
1950	239,954	103,726	21,764	51,188	*17,253	8,747	77,188
1951	209,756	100,728	18,172	46,126	15,129	8,058	69,313
1952	221,403	140,964	16,094	42,533	14,703	10,756	67,992
1953	238,851	162,988	20,294	48,387	16,592	9,393	74,372
1954	256,967	230,059	21,865	56,151	17,024	9,252	82,427
1955	264,502	221,839	24,898	57,972	14,542	10,821	83,335
1956	295,793	257,657	26,867	*65,128	14,513	12,096	*91,737
1957	264,085	244,546	20,349	55,429	14,289	11,663	81,381
1958	248,140	260,354	22,028	55,610	11,361	12,912	79,883
1959	*306,551	*330,717	24,978	59,061	9,325	*13,830	82,216
1960 2/	289,716	197,858	27,859	42,688	10,064	13,807	66,559

1/ Includes homogenized-condensed fish.
2/ Preliminary.
* Record.

MANUFACTURING PLANTS

PLANTS PRODUCING CANNED FISHERY PRODUCTS AND BYPRODUCTS, 1960

State and Area	Canned Products	Byproducts	Total Plants, Exclusive of Duplication
	Number	Number	Number
New England:			
Maine	41	15	52
Massachusetts	9	6	13
Connecticut	1	1	2
Rhode Island	1	1	2
Total	52	23	69
Middle Atlantic:			
New York	10	4	14
New Jersey	13	13	26
Pennsylvania	8	2	10
Delaware	1	3	4
Total	32	22	54
Chesapeake Bay:			
Maryland	4	10	13
Virginia	9	20	25
Total	13	30	38
South Atlantic and Gulf:			
North Carolina	6	18	20
South Carolina	3	-	3
Georgia	1	1	2
Florida	1	4	5
Alabama	2	1	3
Mississippi	15	5	19
Louisiana	28	9	35
Texas	3	5	8
Total	59	43	95
Great Lakes and Mississippi River:			
Illinois	1	1	2
Iowa	-	6	6
Michigan	2	-	2
Missouri	-	1	1
Ohio	1	-	1
Wisconsin	1	-	1
Total	5	8	13
Pacific Coast:			
Alaska	86	4	90
Washington	65	12	77
Oregon	18	4	19
California	30	28	41
Total	199	48	227
Hawaii	1	1	1
American Samoa	1	1	1
Puerto Rico	2	1	2
Grand Total	364	177	500

ESTIMATED VALUE OF THE FISHING INDUSTRY AT VARIOUS LEVELS, 1960 and 1959

Level	1960 1/			1959 2/		
	Domestic Fisheries	Imports	Total	Domestic Fisheries	Imports	Total
	Million Dollars	Million Dollars	Million Dollars	Million Dollars	Million Dollars	Million Dollars
Producer (fishermen)	347	-	347	346	-	346
Imports (declared value)	-	355	355	-	366	366
Processor	599	178	777	577	175	752
Wholesaler	827	554	1,381	824	568	1,392
Retailer	1,078	609	1,687	1,075	624	1,699

1/ Preliminary.

2/ Revised.

ESTIMATE OF CAPITAL INVESTMENT, 1960

Item	Accrued Value
	Thousand Dollars
Producers:	
Fishing craft	423,500
Nets and other gear	107,800
Freezing and processing plants	262,000
Wholesale fish houses 1/	235,300
Retail fish dealers, chain stores, etc. 1/	124,600

1/ Capital investment devoted to fish trade.

PURCHASES OF FRESH, FROZEN, AND CANNED FISHERY PRODUCTS BY DEPARTMENT OF THE ARMY, 1950-1960

Year	Fresh and Frozen		Canned
	Thousand Pounds	Thousand Dollars	Thousand Pounds
1950	17,884	7,399	(1)
1951	31,884	13,771	(1)
1952	32,276	15,050	(1)
1953	26,769	11,857	(1)
1954	25,290	10,395	(1)
1955	24,989	10,929	(1)
1956	26,610	13,413	(1)
1957	23,452	12,080	6,037
1958	22,511	12,850	9,473
1959	22,651	11,624	5,834
1960	22,917	11,839	7,350

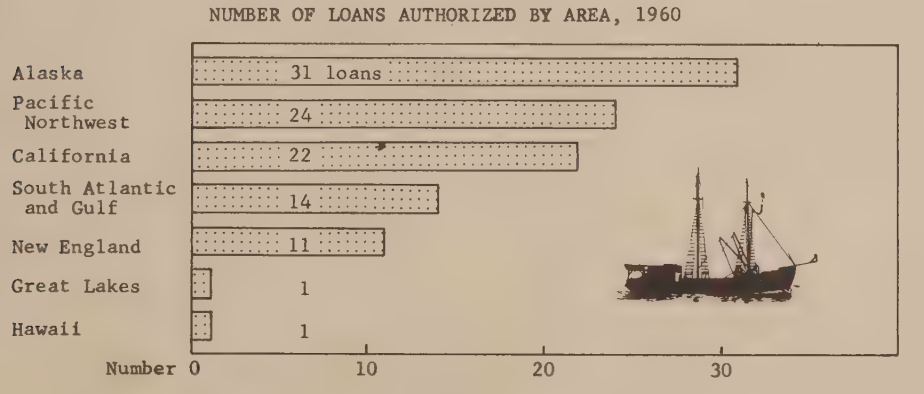
1/ Data not available. Purchases by the Department of the Army were for the United States Armed Forces. Data on local purchases made throughout the year are not available.

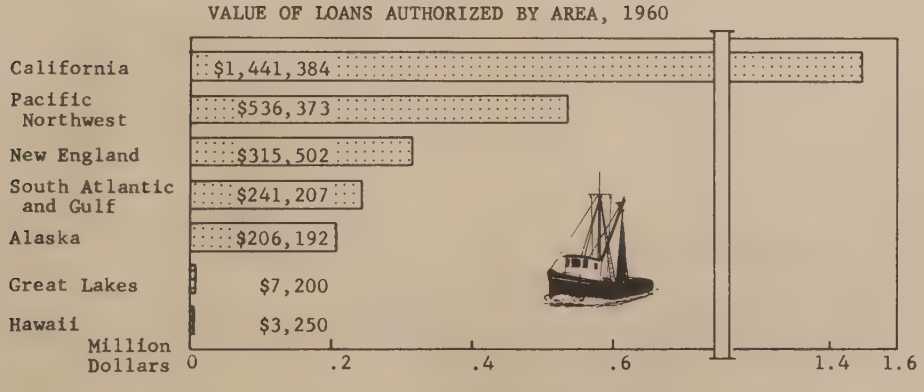
FISHERY LOAN PROGRAM

The Fish and Wildlife Act of 1956 authorized a fishery loan fund program which was started in October 1956. The first loans were approved in late December of that year. Since that time, through December 31, 1960, 848 applications for 25.8 million dollars have been received. Of these, 459 (11.1 million dollars) have been approved.

These loans can be made only for the financing and refinancing of operations, maintenance, repairs, replacement and equipment of fishing vessels and fishing gear, and for research into the basic problems of the fisheries in cases where the credit applied for is not available elsewhere on reasonable terms.

The charts appearing below show the number and value of loans which were authorized during the calendar year 1960 by areas. A total of 104 applications for 2.75 million dollars were approved.





OTHER FINANCIAL ASSISTANCE PROGRAMS

During the year, 2 new programs of financial assistance were authorized. One was a Fishing Vessel Mortgage Insurance Program which insures mortgages given to finance the construction, reconstruction or reconditioning of fishing vessels. The other was a Construction Differential Subsidy Program designed to pay a part of the difference in cost of construction between domestic and foreign shipyards for vessels to be operated in a fishery which has been found to be suffering injury or threat of injury by reason of increased imports. These programs were just getting under way at the end of the year.

UNITED STATES IMPORTS

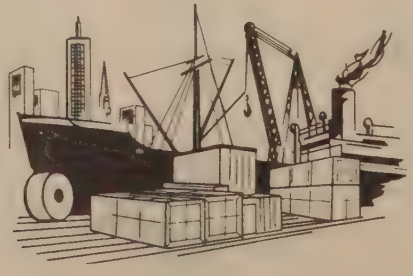
IMPORTANT FISHERY IMPORTS, 1960 and 1959

Item	Unit	1960 1/ Quantity	1959 Quantity	Record Imports Year	Record Imports Quantity
Edible fishery products:					
Fresh and frozen:					
Fillets:					
Groundfish and ocean perch	1,000 pounds	65,878	99,547		
Blocks or slabs	do	89,673	85,290	1959	184,837
Total	do	155,551	184,837	1959	184,837
Other	do	65,465	67,881	1959	67,881
Salmon	do	13,473	19,700	1950	44,975
Tuna:					
Albacore	do	69,802	51,956	1960	69,802
Other	do	164,847	183,955	1959	183,955
Loins and discs	do	6,711	8,166	1957	12,434
Sea scallops	do	6,873	5,107	1959	6,873
Lobsters:					
Common (includes fresh-cooked meat)	do	21,403	20,635	1951	23,558
Spiny	do	32,346	28,092	1960	32,346
Shrimp (mostly frozen, some canned and dried)	do	113,418	106,555	1960	113,418
Canned:					
Salmon	do	19,112	31,154	1959	31,154
Sardines:					
In oil	do	21,235	21,153	1932	42,336
Not in oil	do	6,140	1,010	1953	34,271
Tuna:					
In oil	do	596	830	1950	36,410
In brine	do	51,160	55,304	1959	55,304
Bonito and yellowtail:					
In oil	do	7,110	9,675	1954	12,996
In brine	do	2,797	3,848	1957	3,905
Crabmeat	do	4,508	7,304	1939	13,507
Lobsters:					
Common	do	2,405	2,338	1958	2,383
Spiny	do	534	2,105	1952	2,621
Oysters (mostly canned)	do	7,026	5,953	1960	7,026
Nonedible fishery products:					
Scrap and meal	tons	131,561	132,925	1954	145,777
Solubles	do	3,174	26,630	1959	26,630
Whale oil, sperm	1,000 gallons	4,837	4,106	1958	9,010

1/ Preliminary.

Note:--The data include imports into United States territories and possessions, but do not include landings of tuna by foreign vessels in American Samoa.

Source:--Bureau of the Census, Department of Commerce.



UNITED STATES IMPORTS - Continued

IMPORTS OF SHRIMP, VARIOUS YEARS

Country of Origin	1960 1/	1959	1950	1940
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds
North America:				
Mexico	73,584	68,654	39,653	4,913
Panama	8,423	8,805	143	-
El Salvador	6,699	1,838	-	-
Costa Rica	460	1,156	-	-
Honduras	362	271	-	-
Canada	332	134	89	22
Nicaragua	266	213	-	-
Guatemala	259	182	-	-
Cuba	80	229	-	
British Honduras	1	83	-	-
Canal Zone	-	64	148	-
Other	391	107	25	-
Total	90,857	81,736	40,058	4,935
South America:				
Ecuador	4,193	4,712	-	-
British Guiana	3,568	967	-	-
Columbia	2,173	1,899	-	-
Chile	738	327	-	-
Surinam	381	288	-	-
Venezuela	344	370	-	-
Peru	256	279	-	-
Argentina	61	946	-	-
Brazil	46	79	-	-
Total	11,760	9,867	-	-
Europe:				
Spain	225	192	-	-
Norway	110	160	69	2
Denmark	80	196	-	(2)
Germany, Federal Republic	2	82	1	-
Italy	-	185	3	-
United Kingdom	-	62	(2)	-
Other	36	48	4	22
Total	453	925	77	24
Asia:				
Japan	2,949	7,229	58	55
India	2,892	2,866	-	-
Iran	1,226	740	-	-
Pakistan	1,018	640	-	-
Korea, Republic	76	198	-	-
Thailand	40	52	-	-
Hong Kong	2	640	-	4
Other	349	68	5	6
Total	8,552	12,433	63	65
Australia, Total	128	284	(2)	-
Africa, Egypt, Total	1,668	1,310	-	-
Grand Total	113,418	106,555	40,198	5,024

1/ Preliminary. 2/ Less than 500 pounds.

FOREIGN TRADE - Continued

UNITED STATES IMPORTS - Continued

APPROXIMATE CONDITION OF IMPORTED SHRIMP, 1959 and 1960

Product	1959	1960	Factor used to convert to round weight
	Percent	Percent	Multiply by:
Headless	85.0	82.0	1.68
Peeled (including deveined), raw and cooked	14.1	16.0	2.04
Canned	0.6	0.4	3.70
Breaded	0.2	1.5	1.00
Dried	0.1	0.1	7.69
Total	100.0	100.0	-

IMPORTS OF FISH MEAL AND SCRAP, VARIOUS YEARS

Country of Origin	1960 1/	1959	1950	1940
	Tons	Tons	Tons	Tons
Angola	888	20,738	6,503	-
Canada	30,982	39,033	42,499	25,654
Chile	21,183	5,104	377	-
Peru	68,156	49,923	3,917	-
Union of South Africa	7,073	9,727	825	-
Other Countries	3,279	8,400	9,734	20,479
Total	131,561	132,925	63,855	46,133

1/ Preliminary.

Source:--Bureau of Census, Department of Commerce.

IMPORTS OF FISH SOLUBLES, VARIOUS YEARS

Country of Origin	1960 1/	1959	1958	1954
	Tons	Tons	Tons	Tons
Canada	869	1,660	2,699	2,426
Denmark	1,858	18,723	9,943	-
Other Countries	447	6,247	1,925	1,188
Total	3,174	26,630	14,567	3,614

1/ Preliminary..

Source:--Bureau of Census, Department of Commerce.

UNITED STATES IMPORTS - Continued

IMPORTS OF FISHERY PRODUCTS, 1959

Country of Origin	Edible		Non-edible	Total
	Thousand Pounds	Thousand Dollars	Thousand Dollars	Thousand Dollars
Canada	376,768	94,870	7,096	101,966
Japan	277,919	76,079	20,147	96,226
Mexico	78,039	32,424	445	32,869
Norway	51,403	14,789	1,616	16,405
Peru	65,849	9,682	6,692	16,374
Union of South Africa	13,782	10,339	1,751	12,090
Iceland	48,293	9,539	461	10,000
Denmark	35,370	6,588	1,651	8,239
Australia	7,755	7,801	379	8,180
Panama	9,935	6,407	55	6,462
Portugal	14,632	4,965	487	5,452
Cuba	6,141	3,989	821	4,810
Ecuador	18,893	4,116	43	4,159
Angola	929	282	2,742	3,024
Brazil	1,530	970	2,032	3,002
Spain	6,366	2,520	174	2,694
Netherlands	10,203	2,105	523	2,628
United Kingdom	4,759	1,270	1,118	2,388
New Zealand	2,650	2,354	5	2,359
India	3,199	1,535	704	2,239
France	10,349	1,651	579	2,230
West Germany	6,563	1,372	442	1,814
Colombia	1,900	1,309	294	1,603
Hong Kong	1,718	1,380	188	1,568
Argentina	1,260	532	767	1,299
El Salvador	1,849	1,297	-	1,297
Chile	968	551	731	1,282
Trinidad	6,543	830	8	838
Italy	1,054	596	235	831
Greece	36	12	808	820
Other	46,969	8,879	2,473	11,352
Total	1,113,624	311,033	55,467	366,500

IMPORTS OF FISHERY PRODUCTS, VARIOUS YEARS

Year	Edible		Non-edible	Total
	Thousand Pounds	Thousand Dollars	Thousand Dollars	Thousand Dollars
1935	324,732	27,535	8,697	36,232
1940	302,518	29,073	12,757	41,830
1945	404,768	76,434	24,820	101,254
1950	639,725	158,414	39,882	198,296
1951	646,668	158,363	54,094	212,457
1952	705,118	183,121	*57,308	240,429
1953	726,194	195,869	49,611	245,480
1954	803,389	203,645	48,687	252,332
1955	771,012	208,051	49,896	257,947
1956	787,866	233,166	48,031	281,197
1957	884,024	250,956	46,487	297,443
1958	991,479	280,212	46,959	327,171
1959	*1,113,624	*311,033	55,467	*366,500

* Record.

FOREIGN TRADE - Continued

UNITED STATES EXPORTS

EXPORTS OF FISH AND FISH LIVER OILS, 1960-1956

Country of Destination	1960 1/	1959	1958	1957	1956
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds
Belgium	685	4,333	4,688	1,323	1,519
Canada	9,846	3,840	12,971	2,378	3,242
Denmark	20	1,153	-	-	1,731
Netherlands	53,134	44,116	21,841	27,815	49,648
Norway	15,914	16,109	11,589	10,544	12,502
Sweden	36,069	40,711	6,740	15,432	5,292
Switzerland	-	-	1,115	1,587	734
West Germany	25,203	33,177	34,236	52,593	63,484
Other Countries	2,788	1,042	863	3,146	2,586
Total	143,659	144,481	94,043	114,818	140,738

1/ Preliminary.
Source: Bureau of Census, Department of Commerce.

EXPORTS OF SARDINES, VARIOUS YEARS

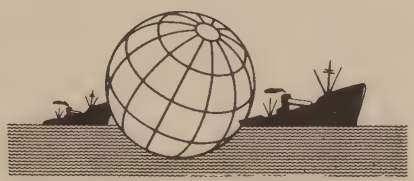
Country of Destination	1960 1/	1959	1949	1939	1929
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds
Belgium	316	721	3,268	1,754	8,104
Canada	-	542	142	5,328	4,149
Cuba	705	3,046	5,002	2,552	1,973
Ecuador	1,622	1,118	1,493	958	798
Greece	3	-	2,681	14	1,151
Hong Kong	387	307	1,386	339	3,218
Mayala, Federation of	95	22	1,208	4,914	11,869
New Zealand	1,420	2,415	24	127	81
Philippines	12,446	25,724	71,127	14,747	19,339
United Kingdom	31	19	9,744	11,199	7,595
Other Countries	4,193	4,810	10,564	14,881	65,643
Total	21,218	38,724	106,841	56,813	123,920

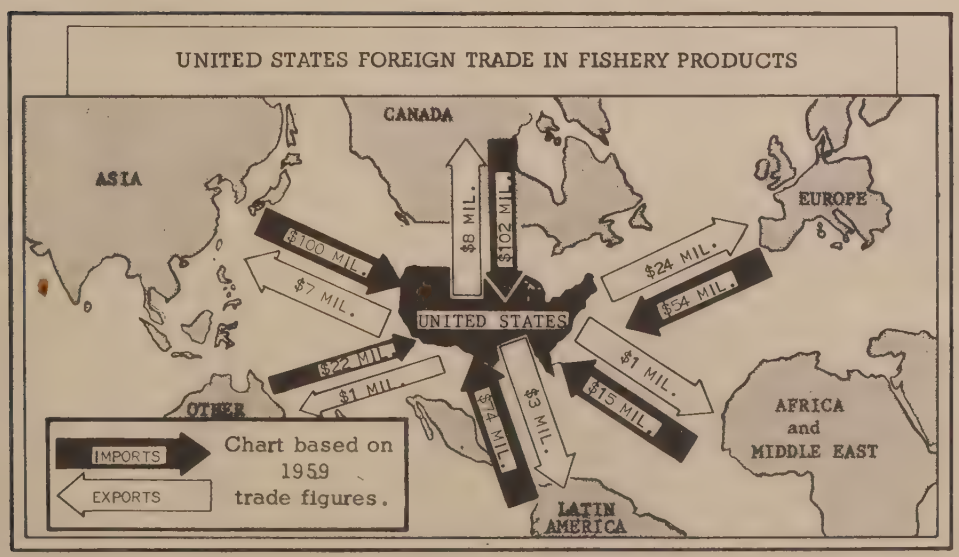
1/ Preliminary.
Source: Bureau of Census, Department of Commerce.

UNITED STATES EXPORTS - Continued

IMPORTANT FISHERY EXPORTS, 1960 and 1959

Item	Unit	1960 Quantity	1959 Quantity	Record Exports Year	Record Exports Quantity
Canned:					
Mackerel	1,000 pounds	1,305	743	1957	17,044
Salmon	do	11,923	13,826	1943	69,486
Sardines:					
In oil	do	263	1,271	1943	137,203
Not in oil	do	20,955	37,453		
Shrimp	do	3,482	2,876	1960	3,482
Squid	do	7,531	9,156	1959	9,156
Fish oils, unclassified	do	143,659	144,481	1959	144,481





FOREIGN TRADE - Continued

UNITED STATES EXPORTS - Continued

EXPORTS OF FISHERY PRODUCTS, 1959

Country of Destination	Edible		Non-edible	Total
	Thousand Pounds	Thousand Dollars	Thousand Dollars	Thousand Dollars
United Kingdom	10,338	8,803	125	8,928
Canada	13,762	5,758	2,886	8,644
Philippines	34,392	5,575	12	5,587
Netherlands	796	497	3,855	4,352
Sweden	211	155	3,021	3,176
West Germany	249	179	2,709	2,888
Norway	19	11	1,285	1,296
Japan	3	11	917	928
Cuba	3,820	716	71	787
France	661	438	328	766
Switzerland	277	155	607	762
Belgium	1,015	316	430	746
Mexico	529	211	452	663
Venezuela	679	594	20	614
Greece	2,639	306	-	306
Italy	41	30	273	303
New Zealand	2,434	285	-	285
Hong Kong	606	213	16	229
Netherland Antilles	300	212	-	212
El Salvador	525	117	92	209
Costa Rica	1,007	201	4	205
Ecuador	1,125	193	-	193
Lebanon	20	20	146	166
Panama	655	153	-	153
Australia	261	108	49	157
Guatemala	651	137	-	137
Bahamas	129	106	5	111
Jamaica	241	97	8	105
Honduras	479	103	-	103
Denmark	9	4	96	100
Other	2,815	1,043	88	1,131
Total	80,688	26,747	17,495	44,242

EXPORTS OF FISHERY PRODUCTS, VARIOUS YEARS

Year	Edible		Non-edible	Total
	Thousand Pounds	Thousand Dollars	Thousand Dollars	Thousand Dollars
1935	119,687	12,875	1,499	14,374
1940	144,804	17,115	670	17,785
1945	135,979	30,855	7,655	38,510
1950	121,623	18,856	8,618	27,474
1951	165,624	27,072	8,659	35,731
1952	62,056	15,511	6,436	21,947
1953	69,308	17,084	10,794	27,878
1954	62,724	16,238	15,289	31,527
1955	109,750	24,923	15,054	39,977
1956	101,918	22,939	16,564	39,503
1957	85,221	20,549	15,403	35,952
1958	65,468	19,440	11,564	31,004
1959	80,688	26,747	17,495	44,242

FOREIGN TRADE - Continued

UNITED STATES CUSTOMS DUTIES

IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1936-1959

Year	Value		Duties Collected		Average Ad Valorem Equivalent	
	Fishery Imports	All Imports	Fishery Imports	All Imports	Fishery Imports	All Imports
	Thousand Dollars	Thousand Dollars	Thousand Dollars	Thousand Dollars	Percent	Percent
1936	41,873	2,423,977	6,545	400,558	15.6	16.5
1937	50,636	3,009,852	8,254	465,253	16.3	15.5
1938	39,307	1,949,624	5,701	293,070	14.5	15.0
1939	45,999	2,276,099	6,015	316,372	13.1	13.9
1940	41,830	2,540,656	4,772	305,609	11.4	12.0
1941	40,981	3,221,954	3,888	413,846	9.5	12.8
1942	39,568	2,780,317	2,714	323,409	6.9	11.6
1943	67,183	3,390,101	3,523	395,030	5.2	11.7
1944	78,418	3,887,490	4,386	382,109	5.6	9.8
1945	101,254	4,098,101	6,979	391,476	6.9	9.6
1946	129,713	4,824,902	8,047	498,001	6.2	10.3
1947	109,975	5,666,321	6,895	445,355	6.3	7.9
1948	156,648	7,092,032	8,694	417,401	5.6	5.9
1949	151,614	6,591,640	7,560	374,291	5.0	5.7
1950	198,296	8,743,082	12,484	529,621	6.3	6.1
1951	212,457	10,817,341	10,346	603,468	4.9	5.6
1952	240,429	10,747,497	11,982	574,733	5.0	5.3
1953	245,480	10,778,905	14,026	597,760	5.7	5.5
1954	252,332	10,239,517	14,405	556,936	5.7	5.4
1955	257,947	11,336,787	14,530	669,579	5.6	5.9
1956	281,197	12,515,747	15,504	739,228	5.5	5.9
1957	297,443	12,950,606	15,955	776,884	5.4	6.0
1958	327,171	12,734,477	16,645	832,155	5.1	6.5
1959	366,500	14,987,075	17,737	(1)	4.8	(1)

1/ Not available.

CUSTOMS RECEIPTS FROM IMPORTS OF AQUATIC PRODUCTS
BY COMMODITY DESCRIPTIONS FOR YEAR 1959

Commodity Description	Value
Canned products:	
Anchovies, in oil	$325,804
Bonito and yellowtail, in oil	336,205
Crabmeat	1,787,536
Salmon	1,669,091
Sardines:	
In oil	1,385,024
Not in oil 1/	132,836
Total	1,517,860
Tuna:	
In oil	106,467
Not in oil	2,811,223
Total	2,917,690
Groundfish fillets	3,556,492
Fresh-water fish, fresh or frozen whole, dressed or fillets	421,532
Pickled or salted	364,633
Marine-animal and liver oils	140,949
Sponges	98,093
Buttons - pearl or shell	242,149
Pearls	682,158
Agar-agar	148,544
Other	3,528,200
Total	17,736,936

1/ Includes herring.

Note:--Important free items: frozen tuna, shrimp, fish meal, lobsters.

UNITED STATES CUSTOMS DUTIES - Continued

CUSTOMS RECEIPTS FROM AQUATIC PRODUCTS FOR CALENDAR YEAR 1959

Tariff Paragraph	Item	Value
5	Chemical compounds, elements, and salts.	$60,989
34	Drugs.	75,059
41	Agar-agar, glue, isinglass	182,995
52	Animal and fish fats, greases and oils, n.s.p.f.	65,890
60	Perfume materials - ambergris.	1,592
66	Colors, paints - pearl essence	83,651
717	Fish, fresh or frozen, whole or beheaded or eviscerated or both, and boned, divided into portions, filleted, etc., including cod, cusk, haddock, hake, pollock, ocean perch, shad, sturgeon, and other fresh-water fish	5,152,877
718	Fish, prepared or preserved in any manner, if packed in oil or in oil and other substance; anchovies, pollock, sardines, tuna, herring, etc.	7,235,324
719	Fish, pickled or salted.	364,633
720	Fish, kippered or smoked (except such type fish in cans)	582,720
721	Crabmeat, fresh, frozen and canned; canned clams and clam juice; fish paste and sauce; caviar and other fish roe; canned oysters	2,489,198
1509	Buttons - pearl or shell	242,149
1519	Dressed furs, sealskins.	7,954
1528	Pearls	682,158
1530	Aquatic hides, skins, leather.	162,488
1531	Reptile leather, n.s.p.f.	165,165
1537	Manufacture of seagrass, whalebone	168
1540	Eelgrass, moss, seagrass, and seaweeds	25,606
1545	Sponges.	98,093
1558	Frog legs.	58,227
	Total.	17,736,936

FREE AND DUTIABLE IMPORTS OF FISHERY PRODUCTS, 1959, TARIFF STATUS

Item	Quantity	Percent of Total	Foreign Value	Percent of Total
	Thousand Pounds	Percent	Thousand Dollars	Percent
Edible Products:				
Dutiable at rates reduced by trade agreement.	504,521	45	141,308	46
Dutiable bound at full rate	116,096	11	31,383	10
Dutiable but not subject to trade agreement concession.	6,163	1	2,588	1
Free of duty, not bound against increase.	295,202	26	75,664	24
Free of duty, bound against increase.	191,642	17	60,090	19
Total edible fishery products.	1,113,624	100	311,033	100
Inedible Products:				
Dutiable at rates reduced by trade agreement.	(1)	(1)	22,822	41
Dutiable bound at full rate	(1)	(1)	1,365	3
Dutiable but not subject to trade agreement concession.	(1)	(1)	561	1
Free of duty not bound against increase	(1)	(1)	-	-
Free of duty, bound against increase.	(1)	(1)	30,719	55
Total inedible fishery products.	(1)	(1)	55,467	100
Total all products	(1)	(1)	366,500	200

1/ Not available.

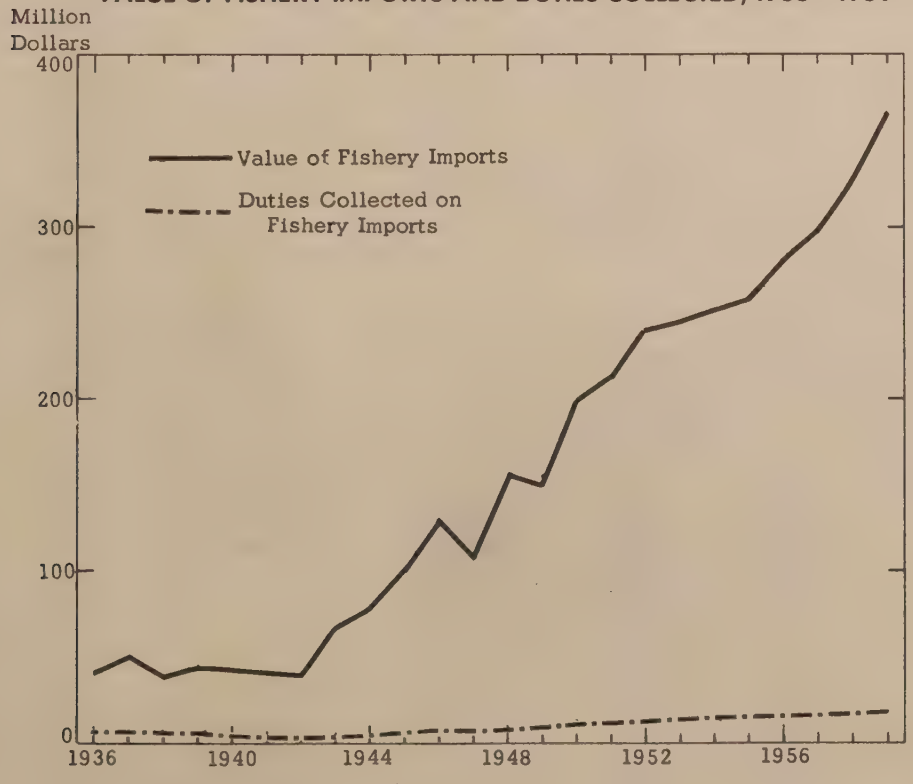
UNITED STATES CUSTOMS DUTIES - Continued

IMPORTS OF FISHERY PRODUCTS ENTERING UNDER SPECIFIC, AD VALOREM, AND FREE OF DUTY TARIFF STATUS, 1959

Item	Quantity	Percent of Total	Foreign Value	Percent of Total
	Thousand Pounds	Percent	Thousand Dollars	Percent
Edible Products:				
Imports at specific rates of duty. . . .	470,318	42	122,745	39
Imports at ad valorem rates.	156,456	14	52,534	17
Imports free of duty	486,850	44	135.754	44
Total edible fishery products	1,113,624	100	311,033	100
Inedible Products:				
Imports at specific rates of duty. . . .	(1)	(1)	6,527	12
Imports at ad valorem rates.	(1)	(1)	18,221	33
Imports free of duty	(1)	(1)	30,719	55
Total inedible products	(1)	(1)	55,467	100
Total all products.	(1)	(1)	366,500	200

1/ Not available.

VALUE OF FISHERY IMPORTS AND DUTIES COLLECTED, 1936 - 1959

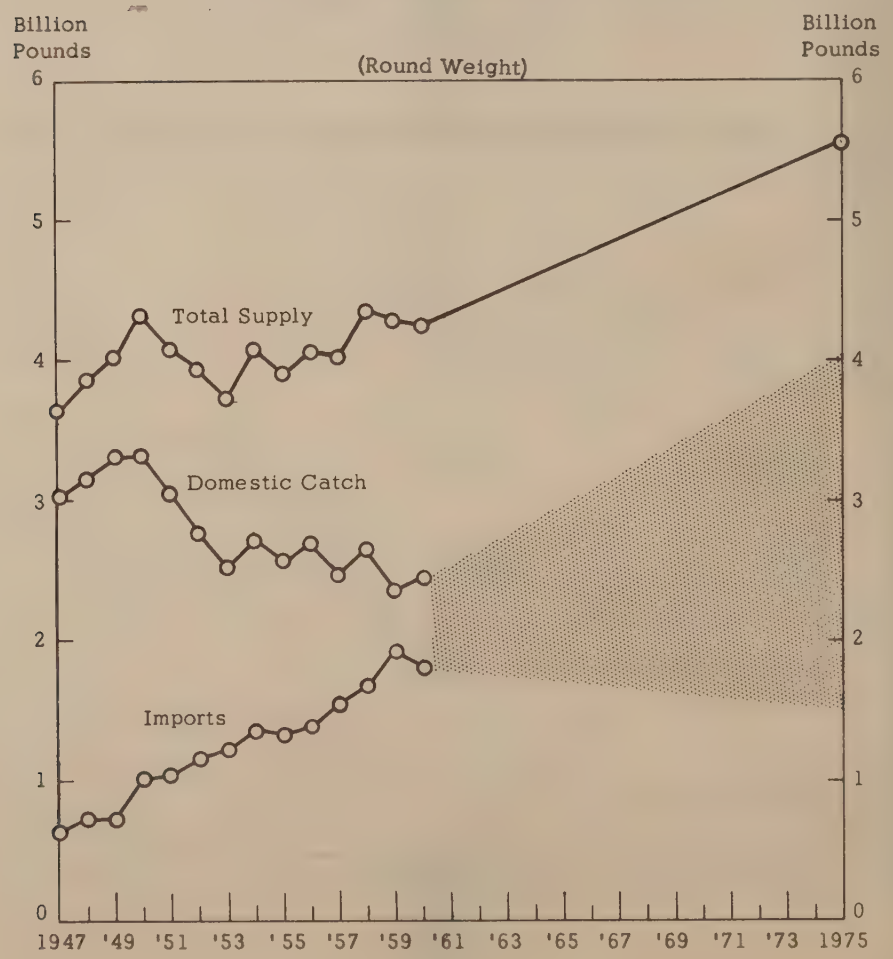


SUPPLIES OF CERTAIN FISHERY PRODUCTS

The tables in this section contain information on the domestic catch and imports and, in cases where they are significant, exports of the more important fishery products. Stocks have not been considered in determining the total supply, so supply cannot be considered synonymous with consumption.

The graph, entitled "United States Supply of Edible Fishery Products, 1947-1960, and Estimated Requirements, 1961-1975" was prepared by assuming that the average total supply for the period 1953-1960 could be projected through 1975, allowing for population increases. The population in 1960 was estimated to be 180,000,000 and 230,000,000 in 1975. The 1975 population estimate of 230,000,000 is an average of several estimates made by the Bureau of the Census in "Population Estimates," Series P-25, No. 187.

United States Supply of Edible Fishery Products, 1947-1960, and Estimated Requirements, 1961-1975



UNITED STATES SUPPLY OF FISHERY PRODUCTS, 1948 - 1960

(Round weight basis)

Year	Domestic Catch		Imports 1/		Total
	Million Pounds	Percent	Million Pounds	Percent	Million Pounds
1948	4,513	80.0	1,128	20.0	5,641
1949	4,804	79.5	1,237	20.5	6,041
1950	4,901	74.9	1,646	25.1	6,547
1951	4,433	65.6	2,324	34.4	6,757
1952	4,432	58.0	3,204	42.0	7,636
1953	4,487	64.0	2,528	36.0	7,015
1954	4,762	62.7	2,829	37.3	7,591
1955	4,809	67.6	2,303	32.4	7,112
1956	*5,268	69.7	2,285	30.3	7,553
1957	4,789	67.1	2,353	32.9	7,142
1958	4,747	63.6	2,720	36.4	7,467
1959	5,122	61.2	*3,251	38.8	*8,373
1960 2/	4,930	61.2	3,130	38.8	8,060

1/ Excludes imports of cured cod into Puerto Rico.

2/ Preliminary. * Record.

UNITED STATES SUPPLY OF EDIBLE FISHERY PRODUCTS, 1948 - 1960

(Round weight basis)

Year	Domestic Catch		Imports 1/		Total
	Million Pounds	Percent	Million Pounds	Percent	Million Pounds
1948	3,146	81.4	717	18.6	3,863
1949	3,305	82.2	715	17.8	4,020
1950	*3,307	76.6	1,008	23.4	4,315
1951	3,048	74.6	1,039	25.4	4,087
1952	2,778	70.4	1,169	29.6	3,947
1953	2,519	67.5	1,213	32.5	3,732
1954	2,705	66.4	1,369	33.6	4,074
1955	2,579	66.1	1,323	33.9	3,902
1956	2,690	66.0	1,385	34.0	4,075
1957	2,475	61.6	1,543	38.4	4,018
1958	2,651	60.7	1,717	39.3	*4,368
1959	2,369	55.2	*1,921	44.8	4,290
1960 2/	2,497	57.9	1,814	42.1	4,311

1/ Excludes imports of cured cod into Puerto Rico.

2/ Preliminary. * Record.

UNITED STATES SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1948 - 1960

(Round weight basis)

Year	Domestic Catch		Imports		Total
	Million Pounds	Percent	Million Pounds	Percent	Million Pounds
1948	1,367	76.9	411	23.1	1,778
1949	1,499	74.2	522	25.8	2,021
1950	1,594	71.4	638	28.6	2,232
1951	1,385	51.9	1,285	48.1	2,670
1952	1,654	44.8	*2,035	55.2	3,689
1953	1,968	60.0	1,315	40.0	3,283
1954	2,057	58.5	1,460	41.5	3,517
1955	2,230	69.5	980	30.5	3,210
1956	2,578	74.1	900	25.9	3,478
1957	2,314	74.1	810	25.9	3,124
1958	2,096	67.6	1,000	32.4	3,096
1959	*2,753	67.4	1,330	32.6	*4,083
1960 1/	2,433	64.9	1,316	35.1	3,749

1/ Preliminary. * Record.

SUPPLY OF GROUNDFISH AND ATLANTIC OCEAN PERCH FILLETS, 1950 - 1960

Year	U. S. Production		Imports 1/		Total
	Thousand Pounds	Percent of Total	Thousand Pounds	Percent of Total	Thousand Pounds
1950	136,593	67.3	66,468	32.7	203,061
1951	*148,786	62.8	88,196	37.2	236,982
1952	132,662	55.1	108,008	44.9	240,670
1953	112,280	55.1	91,571	44.9	203,851
1954	122,391	47.1	137,625	52.9	260,016
1955	105,157	44.7	130,068	55.3	235,225
1956	107,138	43.6	138,714	56.4	245,852
1957	96,650	40.6	141,180	59.4	237,830
1958	99,074	37.4	2/165,531	62.6	264,605
1959	91,133	33.0	*2/184,837	67.0	*275,970
1960 3/	93,793	37.6	2/155,551	62.4	249,344

1/ Source:--Bureau of Customs. 2/ Includes imports of frozen blocks of groundfish.
3/ Preliminary. *Record.

SUPPLY OF FILLETS, STEAKS, ETC. OTHER THAN GROUNDFISH AND ATLANTIC OCEAN PERCH, 1950 - 1960

Year	U. S. Production		Imports		Total
	Thousand Pounds	Percent of Total	Thousand Pounds	Percent of Total	Thousand Pounds
1950	55,859	64.0	31,445	36.0	87,304
1951	56,709	55.5	45,528	44.5	102,237
1952	58,535	52.5	52,873	47.5	111,408
1953	48,132	48.4	51,344	51.6	99,476
1954	51,251	51.6	47,911	48.4	99,162
1955	51,922	48.4	55,223	51.6	107,145
1956	55,661	48.0	60,274	52.0	115,935
1957	57,815	47.7	63,300	52.3	121,115
1958	56,801	47.5	62,688	52.5	119,489
1959	56,104	45.3	*67,881	54.7	123,985
1960 1/	*58,783	47.3	65,465	52.7	*124,248

1/ Preliminary. *Record.

SUPPLY OF CANNED SALMON, 1950 - 1960

Year	United States Pack	Percent of Total Supply	Imports	Percent of Total Supply	Total Supply	Exports	Total Available for U. S. Consumption
	Thousand Pounds	Percent	Thousand Pounds	Percent	Thousand Pounds	Thousand Pounds	Thousand Pounds
1950	206,871	99.8	419	.2	207,290	1,680	205,610
1951	222,987	99.7	568	.3	223,555	2,060	221,495
1952	214,289	95.7	9,544	4.3	223,833	1,427	222,406
1953	187,769	93.9	12,165	6.1	199,934	2,277	197,657
1954	199,810	94.6	11,371	5.4	211,181	7,227	203,954
1955	157,855	91.4	14,644	8.6	172,499	10,429	162,070
1956	168,250	85.4	28,802	14.6	197,052	5,213	191,839
1957	153,917	86.3	24,401	13.7	178,318	6,688	171,630
1958	179,134	86.0	29,226	14.0	208,360	9,227	199,133
1959	118,330	79.2	31,154	20.8	149,484	13,826	135,658
1960 1/	139,777	88.0	19,112	12.0	158,889	11,923	146,966

1/ Preliminary.

SUPPLY OF CANNED TUNA, VARIOUS YEARS

Year	U. S. Pack From Domestic Catch		U. S. Pack from Imported Fish 1/		Total	Imported Canned		Total Supply
	Thousand Pounds	Percent	Thousand Pounds	Percent	Thousand Pounds	Thousand Pounds	Percent	Thousand Pounds
1939 . . .	66,685	83.0	3,559	4.4	70,244	2/10,126	12.6	80,370
1940 . . .	80,389	89.8	1,455	1.6	81,844	2/ 7,678	8.6	89,522
1947 . . .	107,446	93.7	1,060	.9	108,506	2/ 6,148	5.4	114,654
1948 . . .	129,554	92.2	2,603	1.9	132,157	2/ 8,302	5.9	140,459
1949 . . .	134,032	93.6	4,613	3.2	138,645	4,584	3.2	143,229
1950 . . .	152,693	72.6	20,769	9.9	173,462	36,791	17.5	210,253
1951 . . .	125,816	74.7	29,549	17.6	155,365	12,971	7.7	168,336
1952 . . .	140,200	70.6	34,951	17.6	175,151	23,321	11.8	198,472
1953 . . .	135,908	61.8	49,570	22.5	185,478	34,592	15.7	220,070
1954 . . .	148,861	60.9	64,147	26.2	213,008	31,589	12.9	244,597
1955 . . .	113,647	49.0	82,765	35.7	196,412	35,563	15.3	231,975
1956 . . .	152,701	57.0	76,744	28.7	229,445	38,215	14.3	267,660
1957 . . .	140,196	50.6	92,260	33.3	232,456	44,386	16.1	276,842
1958 . . .	149,810	46.3	127,321	39.4	277,131	46,204	14.3	323,335
1959 . . .	132,159	39.1	*150,033	44.3	282,192	*56,134	16.6	338,326
1960 3/. .	* 152,995	43.3	148,393	42.0	* 301,388	51,756	14.7	*353,144

1/ Includes pack canned in American Samoa. *Record.

2/ Includes bonito and yellowtail.

3/ Preliminary.

SUPPLY OF CANNED BONITO AND YELLOWTAIL, VARIOUS YEARS

Year	United States Pack		Imports				Total Supply
			In Oil	In Brine	Total		
	Thousand Pounds	Percent	Thousand Pounds	Thousand Pounds	Thousand Pounds	Percent	Thousand Pounds
1939 . . .	4,744	(1)	(2)	(2)	(2)	(1)	(1)
1940 . . .	4,049	(1)	(2)	(2)	(2)	(1)	(1)
1949 . . .	3,056	27.5	3/8,054	(3)	8,054	72.5	11,110
1950 . . .	1,332	14.1	3/8,135	(3)	8,135	85.9	9,467
1951 . . .	1,961	15.8	3/10,437	(3)	10,437	84.2	12,398
1952 . . .	4,266	23.6	3/13,812	(3)	13,812	76.4	18,078
1953 . . .	3,226	24.0	3/10,242	(3)	10,242	76.0	13,468
1954 . . .	1,446	8.6	12,996	2,375	15,371	91.4	16,817
1955 . . .	88	.6	11,725	3,589	15,314	99.4	15,402
1956 . . .	125	.9	10,409	3,210	13,619	99.1	13,744
1957 . . .	220	1.4	11,608	3,905	15,513	98.6	15,733
1958 . . .	2,107	14.4	9,759	2,732	12,491	85.6	14,598
1959 . . .	1,071	7.3	9,675	3,848	13,523	92.7	14,594
1960 4/. .	138	1.4	7,110	2,797	9,907	98.6	10,045

1/ Data not available. 2/ Prior to 1948 imports of bonito and yellowtail were included with those of tuna. 3/ Data on the pack in brine have been included with the pack in oil.

4/ Preliminary.

SUPPLIES OF CERTAIN FISHERY PRODUCTS - Continued

CATCH AND IMPORTS OF TUNA, 1950 - 1960

Year	United States Catch 1/	Imports		
		Fresh & Frozen including cooked loins and disks (round weight) 2/	Canned	
			In Oil	In Brine
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds
1950	391,454	43,538	36,410	381
1951	318,912	59,126	3,619	9,352
1952	322,694	69,511	4,288	19,033
1953	302,804	96,120	4,712	29,880
1954	322,696	125,992	1,111	30,478
1955	270,366	154,668	818	34,745
1956	329,482	138,936	586	37,629
1957	296,735	172,697	1,068	43,318
1958	319,377	233,873	258	45,446
1959	285,909	284,115	830	55,304
1960 3/	298,300	267,139	596	51,160

1/ Does not include Hawaii prior to 1959 or Puerto Rico.
2/ Does not include landings of foreign-caught fish in American Samoa. 3/ Preliminary.

SUPPLY OF CANNED SARDINES, 1950 - 1960

Year	U. S. Production		Imports 1/		Exports		Total Supply Available for U. S. Consumption
	Maine	Pacific	In Oil	Not in Oil	In Oil	Not in Oil	
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Pounds
1950	89,953	228,186	22,573	9,912	(2)	2/102,321	248,303
1951	39,236	128,924	19,324	9,965	(2)	2/126,661	70,788
1952	82,622	4,803	20,887	10,095	3,250	36,620	78,537
1953	65,110	2,862	23,094	34,271	773	9,184	115,380
1954	68,677	60,215	22,294	22,957	816	16,441	156,886
1955	29,691	63,657	20,930	9,886	1,179	45,431	77,554
1956	52,216	33,963	18,581	10,460	229	39,445	75,546
1957	51,894	22,399	20,127	14,396	379	14,922	93,515
1958	49,139	100,016	18,001	21,172	645	17,816	169,867
1959	41,023	33,956	21,153	11,603	1,271	37,453	69,011
1960 3/	46,744	27,714	21,235	16,732	263	20,955	91,207

1/ Includes sea herring. 2/ Data on sardines canned in oil have been combined with canned sardines not in oil. 3/ Preliminary.

SUPPLY OF CANNED SARDINES OBTAINED FROM DOMESTIC PACK AND IMPORTS, 1950 - 1960

Year	United States Pack 1/	Percent of Total Supply	Imports 2/	Percent of Total Supply	Total Supply
	Thousand Pounds	Percent	Thousand Pounds	Percent	Thousand Pounds
1950	318,139	90.7	32,485	9.3	350,624
1951	168,160	85.2	29,289	14.8	197,449
1952	87,425	73.8	30,982	26.2	118,407
1953	67,972	54.2	57,365	45.8	125,337
1954	128,892	74.0	45,251	26.0	174,143
1955	93,348	75.2	30,816	24.8	124,164
1956	86,179	74.8	29,041	25.2	115,220
1957	74,293	68.3	34,523	31.7	108,816
1958	149,155	79.2	39,173	20.8	188,328
1959	74,979	69.6	32,756	30.4	107,735
1960 3/	74,458	66.2	37,967	33.8	112,425

1/ Includes the pack of Maine and Pacific Sardines. 2/ Includes sea herring. 3/ Preliminary.

SUPPLY OF FRESH AND FROZEN SPINY LOBSTERS, 1950 - 1960

Year	United States Catch 1/	Imports 2/
	Thousand Pounds	Thousand Pounds
1950	2,493	12,927
1951	3,922	14,758
1952	2,419	15,813
1953	2,745	19,942
1954	2,849	19,760
1955	3,154	22,479
1956	3,849	25,258
1957	*4,687	28,236
1958	3,588	25,938
1959	3,700	28,092
1960 3/	3,225	* 32,346

1/ Round weight. 2/ Imported weight, consisting largely of tails. 3/ Preliminary. *Record

SUPPLY OF FRESH AND FROZEN NORTHERN LOBSTERS, 1950 - 1960

Year	United States Catch				Imports		Total Supply
	Maine	Other States	Total	Percent of Total	Total	Percent of Total	
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Percent	Thousand Pounds	Percent	Thousand Pounds
1950	18,352	4,846	23,198	51	22,046	49	45,244
1951	20,760	5,186	25,946	52	*23,558	48	49,504
1952	20,036	4,995	25,031	52	23,197	48	48,228
1953	22,300	5,815	28,115	55	22,610	45	50,725
1954	21,668	5,813	27,481	55	22,468	45	49,949
1955	22,718	6,236	28,954	56	22,962	44	51,916
1956	20,572	5,948	26,520	54	22,484	46	49,004
1957	24,403	5,752	30,155	58	22,218	42	*52,373
1958	21,312	5,915	27,227	56	21,413	44	48,640
1959	22,300	5,800	28,100	58	20,635	42	48,735
1960 1/	24,000	6,545	30,545	59	21,403	41	51,948

1/ Preliminary. *Record

SUPPLY OF SHRIMP, 1950 - 1960

Year	United States Catch			Imports		Total
	Heads on	Heads off 1/	Percent of Total	Heads off	Percent of Total	Heads off
	Thousand Pounds	Thousand Pounds	Percent	Thousand Pounds	Percent	Thousand Pounds
1950	191,474	113,927	74	40,198	26	154,125
1951	224,316	133,468	76	41,824	24	175,292
1952	227,221	135,196	78	38,471	22	173,667
1953	260,357	154,912	78	43,100	22	198,012
1954	*268,334	* 159,659	79	41,519	21	201,178
1955	244,335	145,379	73	53,772	27	199,151
1956	224,173	133,383	66	68,618	34	202,001
1957	203,882	121,310	64	69,676	36	190,986
1958	213,842	127,236	60	85,394	40	212,630
1959	244,000	145,180	58	106,555	42	251,735
1960 2/	248,700	147,976	57	*113,418	43	*261,394

1/ Converted to heads-off weight by multiplying by .595 percent. 2/ Preliminary. *Record.

SUPPLIES OF CERTAIN FISHERY PRODUCTS - Continued

SUPPLY OF CANNED CRABMEAT, VARIOUS YEARS

Year	United States Pack	Percent of Total Supply	Imports	Percent of Total Supply	Total Supply	Exports	Total Available for U. S. Consumption
	Thousand Pounds	Percent	Thousand Pounds	Percent	Thousand Pounds	Thousand Pounds	Thousand Pounds
1939 . .	640	4.5	*13,507	95.5	*14,147	-	*14,147
1948 . .	*4,306	76.3	1,337	23.7	5,643	73	5,570
1950 . .	2,675	39.7	4,070	60.3	6,745	20	6,725
1951 . .	2,924	59.8	1,968	40.2	4,892	47	4,845
1952 . .	1,678	44.7	2,080	55.3	3,758	33	3,725
1953 . .	2,240	36.0	3,983	64.0	6,223	20	6,203
1954 . .	3,013	51.2	2,867	48.8	5,880	19	5,861
1955 . .	1,934	28.1	4,951	71.9	6,885	19	6,866
1956 . .	2,431	30.1	5,640	69.9	8,071	17	8,054
1957 . .	3,013	32.8	6,185	67.2	9,198	29	9,169
1958 . .	2,804	32.4	5,854	67.6	8,658	(2)	8,658
1959 . .	2,942	28.7	7,304	71.3	10,246	(2)	10,246
1960 1/.	3,991	47.0	4,508	53.0	8,499	(2)	8,499

1/ Preliminary.

2/ Data not available.

* Record.

SUPPLY OF FISH OILS, 1950 - 1960

(Excluding Liver, Whale and Sperm Oil)

Year	United States Production	Imports	Total Supply	Exports 1/	Available for U. S. Consumption
	Thousand Gallons	Thousand Gallons	Thousand Gallons	Thousand Gallons	Thousand Gallons
1950	21,433	2,018	23,451	10,130	13,321
1951	17,804	2,316	20,120	6,645	13,475
1952	15,818	2,079	17,897	5,861	12,036
1953	20,089	1,594	21,683	14,462	7,221
1954	21,628	1,735	23,363	18,884	4,479
1955	24,679	1,384	26,063	19,023	7,040
1956	26,302	1,421	27,723	18,774	8,949
1957	19,759	967	20,726	15,325	5,401
1958	21,551	657	22,208	12,539	9,669
1959	24,945	900	25,845	19,264	6,581
1960 2/.	27,826	1,191	29,017	19,155	9,862

1/ Includes small quantities of non-medicinal liver oils.

2/ Preliminary.

SUPPLY OF FISH MEAL AND SOLUBLES, 1950 - 1960

Year	U. S. Production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1950	291,817	82.0	2/ 63,855	18.0	355,672
1951	260,120	66.9	2/128,478	33.1	388,598
1952	291,885	58.9	*2/203,539	41.1	495,424
1953	320,345	70.9	2/131,473	29.1	451,818
1954	314,482	68.1	147,584	31.9	462,066
1955	319,962	76.2	99,692	23.8	419,654
1956	360,207	79.6	92,089	20.4	452,296
1957	325,221	79.0	86,297	21.0	411,518
1958	313,228	74.3	108,167	25.7	421,395
1959	*389,231	72.5	147,392	27.5	*536,623
1960 3/	339,180	71.8	133,349	28.2	472,529

1/ Includes homogenized-condensed fish. 2/ Imports of meal only. Data not available on imports of solubles. 3/ Preliminary. *Record.

Note:--Wet weight of solubles and homogenized-condensed fish have been converted to dry weight by reducing their poundage by one-half.

SUPPLY OF FISH MEAL, 1950 - 1960

Year	U. S. Production		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1950	239,954	79.0	63,855	21.0	303,809
1951	209,756	62.0	128,478	38.0	338,234
1952	221,403	52.1	*203,539	47.9	424,942
1953	238,851	64.5	131,473	35.5	370,324
1954	256,967	63.8	145,777	36.2	402,744
1955	264,502	73.0	98,003	27.0	362,505
1956	295,793	76.6	90,421	23.4	386,214
1957	264,085	76.5	81,079	23.5	345,164
1958	248,140	71.2	100,352	28.8	348,492
1959	*306,551	69.8	132,925	30.2	* 439,476
1960 1/	289,716	68.8	131,561	31.2	421,277

1/ Preliminary. *Record.

SUPPLY OF FISH SOLUBLES, 1950 - 1960

Year	U. S. Production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1950	51,863	100.0	(2)	-	51,863
1952	50,364	100.0	(2)	-	50,364
1952	70,482	100.0	(2)	-	70,482
1953	81,494	100.0	(2)	-	81,494
1954	115,030	97.0	3,614	3.0	118,644
1955	110,919	97.1	3,297	2.9	114,216
1956	128,829	97.7	2,991	2.3	131,820
1957	122,273	92.6	9,709	7.4	131,982
1958	130,177	89.9	14,567	10.1	144,744
1959	*165,359	86.1	*26,630	13.9	*191,989
1960 3/	98,929	96.9	3,174	3.1	102,103

1/ Includes homogenized-condensed fish.

2/ Data not available.

3/ Preliminary. *Record.

Note:--Imports of solubles are understood to be on a wet-weight basis except for those from South Africa, which are believed to be on a dry-weight basis.

The yield of the commercial fisheries of the world totaled a record 77.9 billion pounds in 1959. Japan continued in first place, followed by China (Mainland), the United States, and the U.S.S.R.

Asia, excluding the U.S.S.R., accounted for 44 percent of the total. Europe, excluding the U.S.S.R., followed with 22 percent and North America, 12 percent. South America showed the greatest percentage gain over the previous year with an increase of nearly 2.5 billion pounds or 70 percent.

Expansion of the Peruvian anchovy fishery accounted for nearly the entire South American gain. The catch of anchovies, used in Peru's rapidly growing fish-meal industry, increased from about 100 million pounds in 1954 to over 4 billion pounds in 1959. Peru will move into third place among fish producing nations if the rapid growth of this industry continues.

Over a fourth of the world catch in 1959 consisted of herring, menhaden, anchovies, and sardines. Members of the cod family -- cod, hakes, haddocks, etc. -- followed in importance. The third most important group was fresh-water fishes. China accounted for almost half the catch of the latter group.

Data in the following tables were taken from the "Yearbook of Fishery Statistics, 1959," Volume XI, Food and Agriculture Organization of the United Nations. Statistics published by this organization represent live weight of the catch of fishery products and shell-weight of mollusks. The United States catch is 25 percent greater than catch figures appearing elsewhere in this publication because of the inclusion of shell weight of univalve and bivalve mollusks in the Food and Agriculture Organization report.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1959

(Live weight basis)

Country	Million Pounds	Percent
Japan	12,952	16.6
China (Mainland)	11,067	14.2
United States	1/6,385	8.2
U. S. S. R.	6,076	7.8
Peru	4,409	5.7
Norway	3,543	4.5
Canada	2,316	3.0
United Kingdom	2,180	2.8
India	1,814	2.3
Germany, Federal Republic	1,691	2.2
Spain	2/ 1,676	2.1
Indonesia	1,543	2.0
Denmark	1,485	1.9
Iceland	1,411	1.8
Philippines	1,141	1.5
France	1,127	1.4
Union of South Africa	1,027	1.3
Portugal	942	1.2
Korea, South	842	1.1
Netherlands	705	1.0
Pakistan	640	.8
South West Africa	625	.8
Chile	601	.8
Angola	590	.8
Sweden	2/551	.7
China (Taiwan)	543	.7
Italy	470	.6
Thailand	451	.6
Mexico	420	.5
Poland	352	.4
Other	8,328	10.7
Total	1/77,903	100.0

1/ Revised. 2/ Landed weight.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY CONTINENTS, 1959

(Live weight basis)

Continent	Million Pounds	Percent
Africa	4,586	5.9
North America	9,406	12.1
South America	5,996	7.7
Asia (excluding U. S. S. R.)	34,083	43.7
Europe (excluding U. S. S. R.)	17,460	22.4
Oceania	287	.4
U. S. S. R.	6,085	7.8
Total	77,903	100.0

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC. - BY MAJOR FISHING AREAS, 1959

(Live weight basis)

Area	Billion Pounds	Percent
Marine Fisheries:		
Northern Hemisphere Areas	48.8	62.6
Tropical Areas	16.1	20.7
Southern Hemisphere Areas	3.5	4.5
Total	68.4	87.8
Fresh-water Fisheries:		
Africa	1.2	1.5
North America	.3	.4
South America	.1	.1
Asia (excluding U. S. S. R.)	6.6	8.5
Europe (excluding U. S. S. R.)	.3	.4
Oceania	(1)	(1)
U. S. S. R.	1.0	1.3
Total	9.5	12.2
Grand Total	77.9	100.0

1/ Negligible.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC. - BY SPECIES GROUPS, 1959

(Live weight basis)

Species Groups	Million Pounds
Fresh-water fishes	9,480
Salmon, trouts, smelts, etc.	1,367
Flounders, halibut, soles, etc.	1,896
Cods, hakes, haddock, etc.	9,965
Herring, sardines, anchovies, etc.	19,577
Tunas, bonitos, mackerels, etc.	4,233
Miscellaneous marine teleosteans	7,959
Sharks, rays, etc.	727
Mixed and unidentified fishes	14,903
Crustaceans	1,749
Mollusks	4,800
Aquatic animals	165
Aquatic plants	1,082
Total	77,903

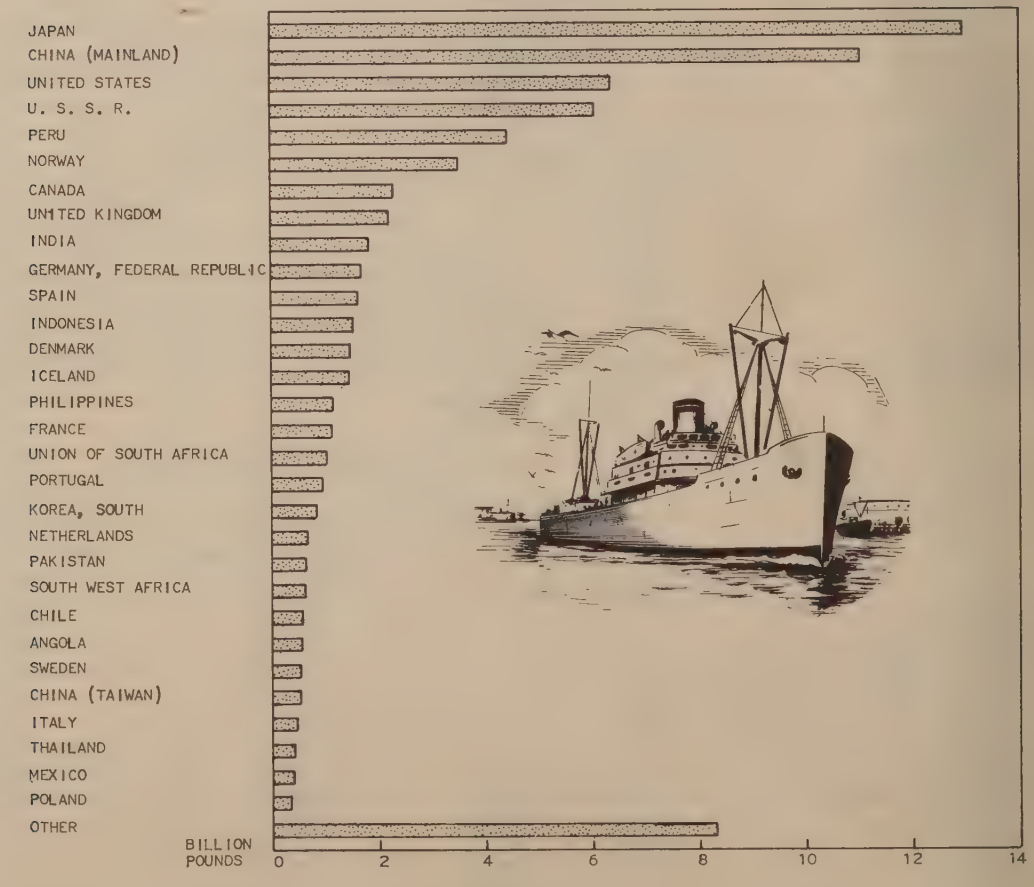
WORLD FISHERIES - Continued

ESTIMATED USE OF THE WORLD CATCH, 1959

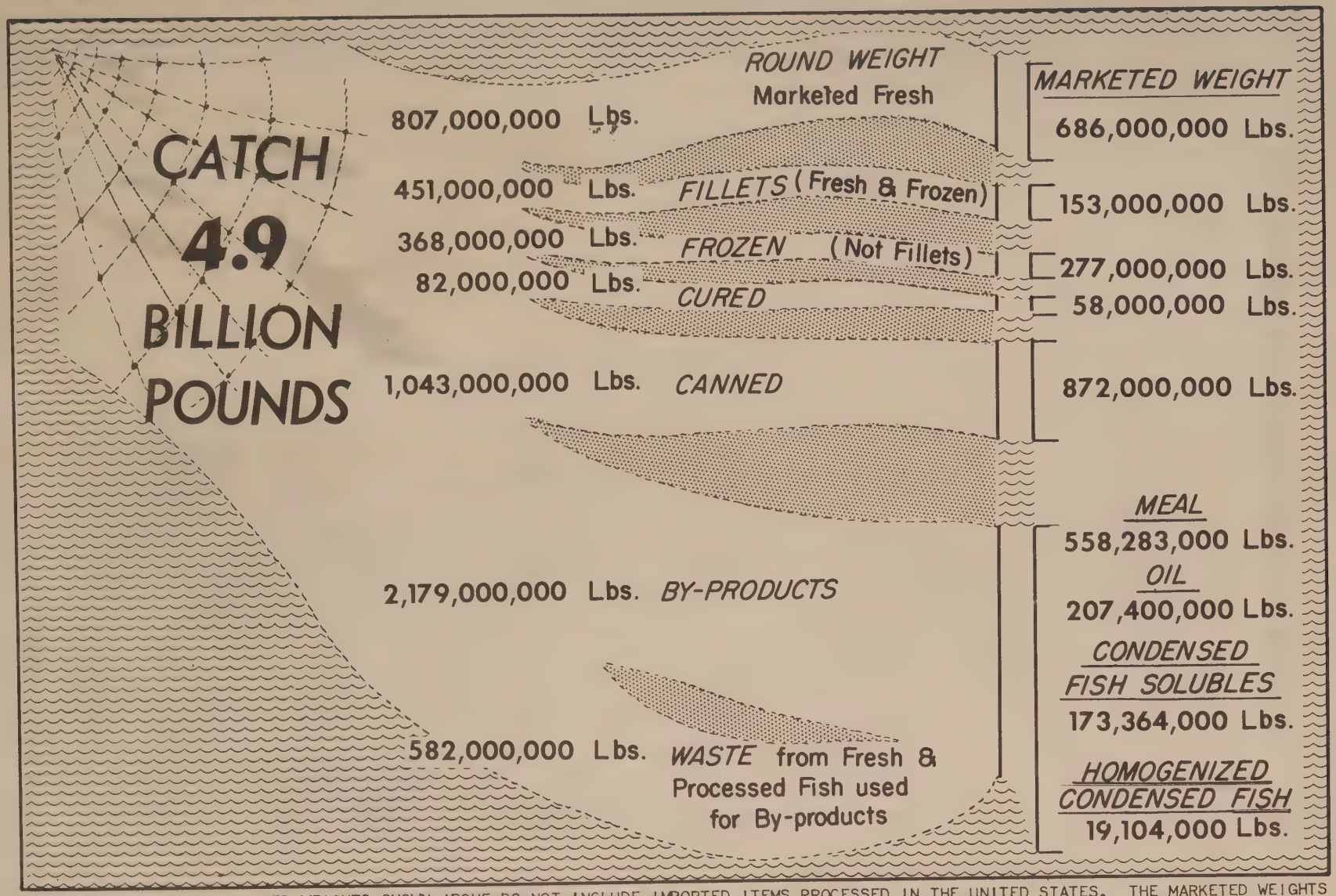
(Round weight basis)

Manner Used	Billion Pounds	Percent
Marketed fresh	33.1	42.5
Frozen	6.6	8.5
Cured	15.9	20.4
Canned	6.8	8.7
Reduced to meal, oil, etc.	13.3	17.1
Miscellaneous purposes	2.2	2.8
Total	77.9	100.0

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1959



FLOW CHART of the COMMERCIAL FISHERIES - 1960



NOTE: THE ROUND AND MARKETED WEIGHTS SHOWN ABOVE DO NOT INCLUDE IMPORTED ITEMS PROCESSED IN THE UNITED STATES. THE MARKETED WEIGHTS LISTED DO NOT INCLUDE FRESH BAIT, OR ANIMAL FOOD PREPARED FROM WASTE, SHELL PRODUCTS, OR OTHER MISCELLANEOUS BYPRODUCTS.

GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF THE INTERIOR
WASHINGTON 25, D.C.
Telephone: REpublic 7-1820 or Code 183

		Room	Extension
Secretary of the Interior, Stewart L. Udall		6151	704
Assistant Secretary for Fish and Wildlife, Frank P. Briggs		3156	4752
Commissioner, Fish and Wildlife Service, Clarence F. Pautzke		3156	4678
Bureau of Commercial Fisheries			
Director, Donald L. McKernan		3356	4993
Assistant Director, Andrew W. Anderson		3356	4993
Division of Administration, Chief, Cleo F. Layton		3352	3436
Branch of:	Chief:		
Budget and Finance	Harold W. Sorrill	2449	3227
Management Analysis	Donald D. Carruth	1044	703
Personnel Management	C. Doyle Innis	1362	5406
Property Management	Kenneth A. Lawrence	2545	5415
Division of Biological Research, Chief, Dr. J. Lawrence McHugh		3349	4106
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Inland Fisheries	Philip R. Nelson, Actg.	3341	2089
Marine Fisheries	Howard H. Eckles	3038	2662
Shellfisheries	John B. Glude	3345	3272
Division of Industrial Research, Harold E. Crowther		3353	4386
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Marketing	Donald Y. Aska	3060	2151
Technology	John A. Holston	3026	4745
Division of Resource Development, Chief, Ralph C. Baker		3350	2184
Branch of:	Chief:		
Loans and Grants	C. Eldred Peterson	2556	4574
Market News	Joseph Pileggi	2555	4843
Reports	Elmer Higgins	3042	2213
Resource Management	John I. Hodges	3344	4543
Statistics	Edward A. Power	8015	4881
Resource Management Officer, Ralph E. Curtiss		3348	2185

BUREAU OF COMMERCIAL FISHERIES
REGIONAL AND AREA OFFICES

Region 1 (Pacific Region)

Samuel J. Hutchinson, Director
6116 Arcade Building
1319 Second Avenue
Seattle 1, Washington
Telephone: MUtual 2-3300, Ext. 1144

Region 2 (Gulf and South Atlantic Region)

Seton H. Thompson, Director
Don Ce-Sar Federal Center
Post Office Box 6245
St. Petersburg Beach, Florida
Telephone: St. Petersburg 23-5311

Region 3 (North Atlantic Region)

John T. Gharrett, Director
Post Office Building
Gloucester, Massachusetts
Telephone: 6411

Region 4 (Great Lakes and Central Region)

William F. Carbine, Director
920 North Main Street
Ann Arbor, Michigan
Telephone: NOrmandy 2-5529

Region 5 (Alaska Region)

Harry L. Rietze, Director
Juneau Daires Building
Post Office Box 2481
Juneau, Alaska
Telephone: 6-3511

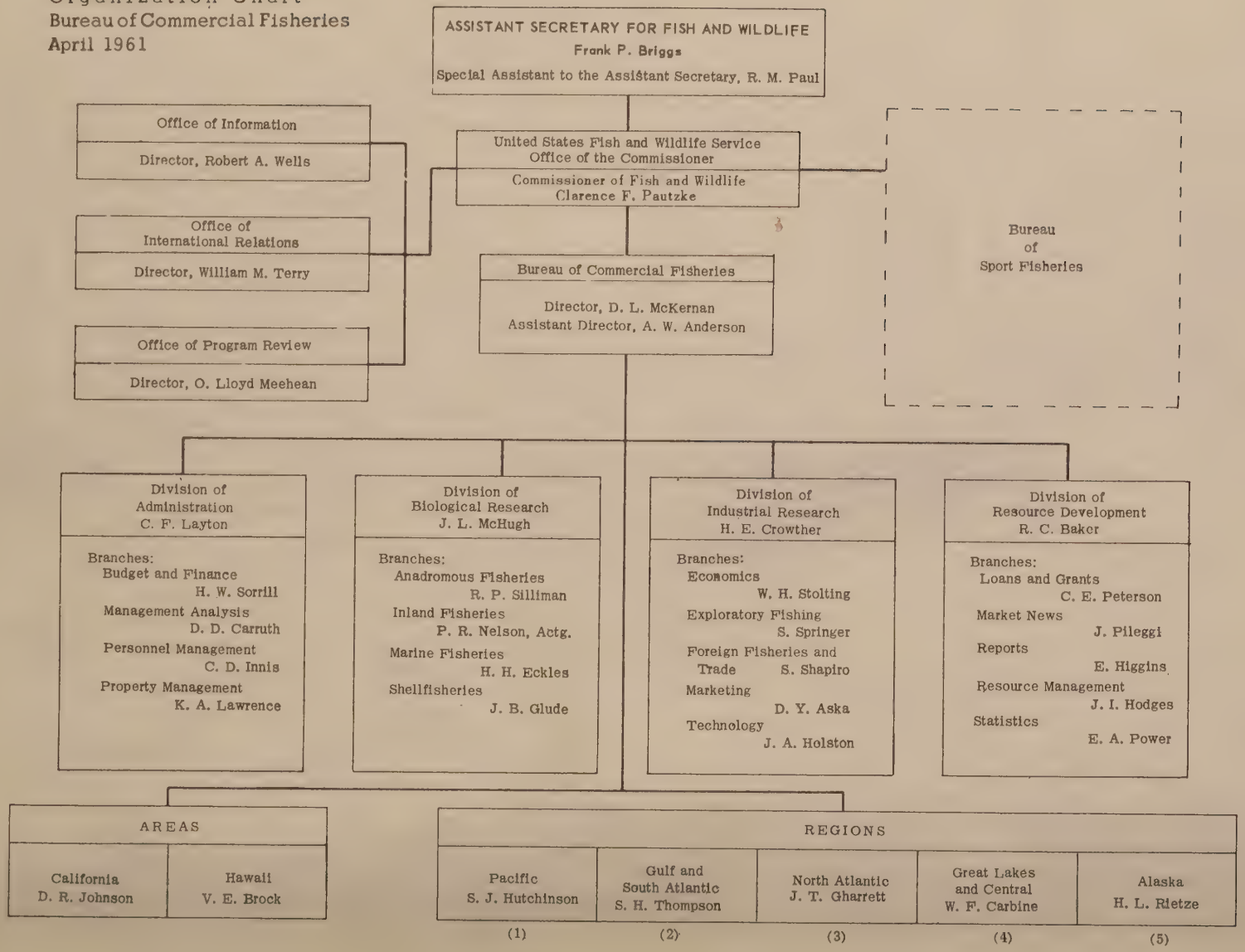
California Area Office

Donald R. Johnson, Director
101 Seaside Avenue
Terminal Island, California
Telephone: TErminal 3-4457

Hawaii Area Office

Vernon E. Brock, Director
2570 Dole Street
Post Office Box 3830
Honolulu 12, Hawaii
Telephone: 9-1181

Organization Chart
Bureau of Commercial Fisheries
April 1961



TOTAL AMOUNTS AVAILABLE TO THE BUREAU OF COMMERCIAL FISHERIES AND DISTRIBUTION BY PROGRAM - FY 1961

(In thousands of dollars)

Item	Annual Definite Appropriations				Permanent Indefinite Appropirations				Contributed Funds	Reimbursement	Budget		
	Management and Investigations of Resources 1/	Construction 1/	General Administrative Expenses 1/	Construction of fishing vessels	Administration of Pribilof Islands	Payment to Alaska, Pribilof Islands Receipts	Promote and Develope Fisheries etc.	Fisheries Loan Fund			1961	1960	Difference
1. Management.	369	-	-	-	-	-	-	-	-	22	391	318	+73
2. Marketing and technology	2,404	-	-	-	-	-	1,930	-	353	95	4,782	4,297	+485
3. Research.	3,799	-	-	-	-	-	2,815	-	901	559	8,074	7,277	+797
4. Research on fish migration over dams.	303	-	-	-	-	-	-	-	-	84	387	363	+24
5. Administration of Alaska fisheries . .	-	-	-	-	-	-	-	-	-	-	-	759	-759
6. Fishing vessel mortgage insurance . . .	51	-	-	-	-	-	-	-	-	-	51	14	+37
7. Operation and maintenance of Columbia River fishery facilities	2,004	-	-	-	-	-	-	-	-	-	2,004	1,518	+486
8. Construction and land acquisition.	-	2,645	-	-	-	-	-	-	-	-	2,645	446	+2,199
9. Columbia River fishery facilities . . .	-	1,997	-	-	-	-	-	-	-	-	1,997	1,048	+949
10. General Administrative services. . . .	-	-	482	-	-	-	314	-	35	20	851	790	+61
11. Construction of fishing vessels	-	-	-	750	-	-	-	-	-	-	750	-	+750
12. Administration of Pribilof Islands . .	-	-	-	-	1,878	-	-	-	-	10	1,888	1,509	+379
13. Fur-seal research . .	-	-	-	-	221	-	-	-	-	-	221	218	+3
14. Payment to Alaska from Pribilof Islands receipts . . .	-	-	-	-	-	1,050	-	-	-	-	1,050	814	+236
15. Loans to fisheries: Loans	-	-	-	-	-	-	-	2,255	-	-	2,255	1,545	+710
Administration expense.	-	-	-	-	-	-	-	250	-	-	250	208	+42
16. Fisheries Advisory Committee.	-	-	-	-	-	-	32	-	-	-	32	24	+8
Total program . . .	8,930	4,642	482	750	2,099	1,050	5,091	2,505	1,289	790	27,628	21,148	+6,480
Prior year balance for the program. . .	-154	-874	-	-	-	-	-135	-6,568	-141	-	-7,872	-5,312	-2,560
Balance available in subsequent years . .	-	-	-	-	-	-	365	5,183	36	-	5,584	7,872	-2,288
Unobligated balance lapsing.	-	-	-	-	-	-	-	-	-	-	-	263	-263
Collection of loans, interest, etc. . . .	-	-	-	-	-	-	-	1,120	-	-	-1,120	-1,069	-51
Total appropriation	8,776	3,768	482	750	2,099	1,050	5,321	-	1,184	790	24,220	22,902	+1,318

1/ Transfer funds from the Corps of Engineers included in the appropriations Management and Investigations of Resources, Construction and SAE for comparability.

March 30, 1961.

GENERAL ADMINISTRATIVE INFORMATION - Continued

FISHERY STATISTICAL OFFICES

Rockland, Maine	R.C. Barnard, 457 Main Street	Lyric 4-5969
W. Boothbay Harbor, Me.	D.A. McKown, P.O. Box 33	164 (Home)
Portland, Maine	J.P. Wentworth, Custom House	Spruce 2-3362
Gloucester, Massachusetts	D.L. Hoy, 105 Maplewood Ave.	3420
New Bedford, Massachusetts	J.V. Mahoney, Custom House	Wyman 3-6972
Provincetown, Massachusetts	F.J. Lyons, P.O. Building	868
Warren, Rhode Island	W.J. Murphy, Room 205, P.O. Building	Cherry 5-2224
Bayport, L.I., N.Y.	C.T. Smith, P.O. Box 815	Bayport 8-3687
Toms River, N.J.	E.A. LoVerde, Room 2, P.O. Building, Box 143	Diamond 9-3533
Oxford, Maryland	W. Brey	Castle 6-5193, 6-5194
Salisbury, Maryland	R.H. Wilson, P.O. Building, Box 885	Pioneer 9-6109, 9-6054
Weems, Virginia	James Wharton	Idlewood 8-3672
Beaufort, North Carolina	C.D. Stewart, U.S. Fisheries Lab.	Park 8-4968
Charleston, South Carolina	Melvin Low, Custom House	Raymond 2-4783
Brunswick, Georgia	V. L. Strock, Federal Building, Room 303, Box 877	Amherst 5-2152
Miami 49, Florida	Lloyd E. Johnson, No. 1 Richenbacker Causeway	EM 1-2595
Key West, Florida	C.T. Witt, Room 317, P.O. Bldg.	Cypress 4-1921
Fort Myers, Florida	J. Naughton, Kramer's Dock, Foot of Carson Street	Edison 4-9361
Tampa 10, Florida	E. J. Barry, 1508 Lucas Dr., Hookers Point	Tampa 4-3906
Apalachicola, Florida	P.E. Thompson, P.O. Box 362	Oliver 3-5000
Bayou LaBatre, Alabama	B.G. Thompson, P.O. Box 591	Taylor 6-4602
Ocean Springs, Miss.	H. G. Hague, P.O. Box 218	Trinity 5-5345
Milan, Tennessee	W.E. Giles, P.O. Box 379	None
New Orleans 12, La.	G.W. Snow, Room 609 Federal Building	529-2411, Ext. 6151
Empire, La.	O. Plaisance, 801 Barbe Street, Westwego	None
Houma, La.	C.G. Dunn, 99 Leona Street	Upland 2-3321
Galiano, La.	M. Duet, P. O. Box 162	2-2255 (Home)
Morgan City, La.	D.P. Delaune, 1906 Maple St.	3608 (Home)
Galveston, Texas	J.W. Morgan, Rm., 209, 1927 Ave. E.	2-7642
Aransas Pass, Texas	C.E. Nickerson, P.O. Box 174	Plaza 8-3787
Brownsville, Texas	W.W. Schiwetz, P.O. Box 467	Lincoln 6-1714
Freeport, Texas	D.R. Hoogland, P.O. Box 2533, Velasco, Texas	Belmont 3-4551
San Pedro, California	H. Davis, P. O. Building	Terminal 2-5354
Astoria, Oregon	E.E. Poysky, 342-11th St.	FA 5-5531
Seattle 4, Washington	F.M. Wood, Pier 42, South	Main 2-0740, 2-0741
Ann Arbor, Michigan	R.G. Personius, 920 N. Main St.	Normandy 2-5529
Portsmouth, Virginia	T.D. Walsh, Municipal Bldg., Fifth Floor	Export 7-5831 Ext. 289

FISHERY MARKET NEWS OFFICES

Boston 10, Mass.	J. J. O'Brien, 10 Commonwealth Pier, TWX BS 130	Liberty 2-6070
New York 38, N. Y.	T. J. Risoli, 155 John St., TWX NY 1-1809	Digby 4-4559
Hampton, Va.	W. N. Kelly, Box 447, 18 S. King Street, TWX Hampton, Va. 80	Park 3-3360 or 9
New Orleans 12, La.	P. DiMarco, 609 Federal Building, 600 South Street, TWX NO 459	Express 2411, Ext. 6151
San Pedro, Calif.	V. J. Samson, P. O. Building, Room 208 TWX ZA 5034	Terminal 2-5354
Seattle 4, Wash.	C. M. Reardon, Pier 42, South TWX SE 211	Maine 2-0740 - 1
Chicago 6, Ill.	G. A. Albano, Rm. 618, 565 W. Washington Street, TWX CG 1426	Financial 6-7266

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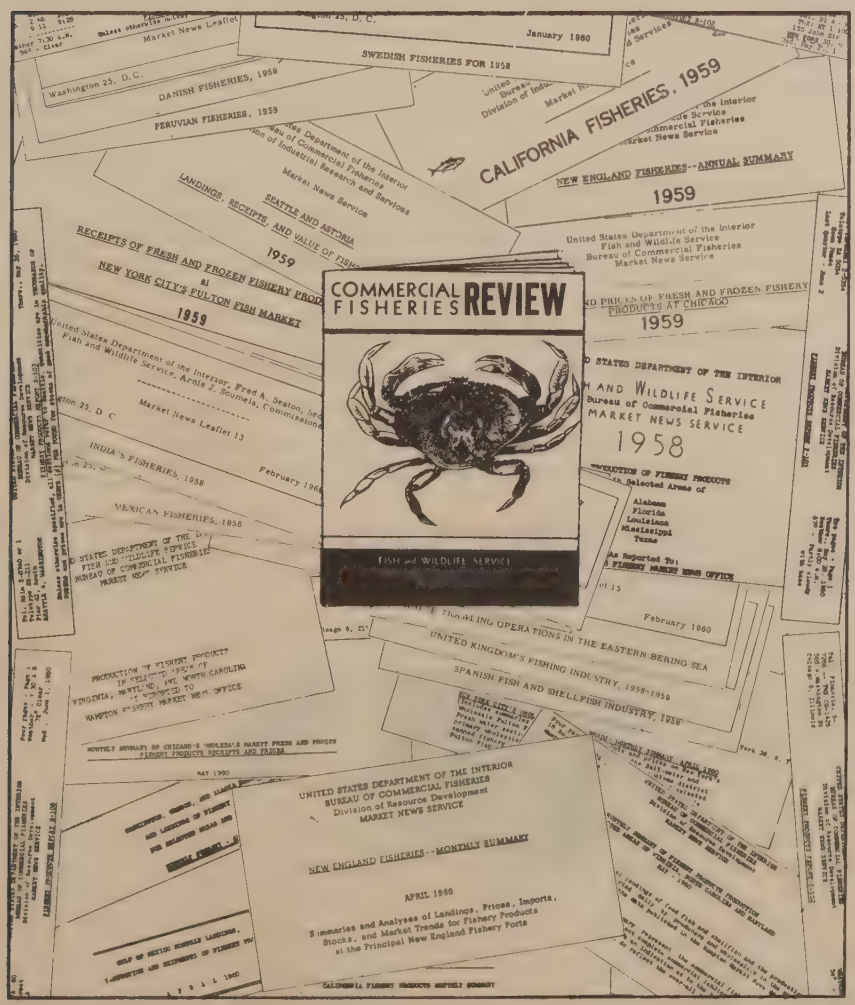

PUBLICATIONS

The following partial listing of the Service's Publication Series is presented for the information of interested persons or organizations. Most are distributed free to persons interested in receiving them. However, some reports must be purchased. Information on how to obtain the various reports released by the Branch of Statistics and the Branch of Market News will be found on pages 58 and 59.

Fishery Statistical Publications of the Bureau of Commercial Fisheries, (Fishery Leaflet 432).--This report contains a descriptive listing of all statistical publications released by the Bureau. It catalogs in detail the many publications in the Current Fishery Statistical series; daily, monthly, and annual Market News reports; and statistical digests. It also contains listings of fishery statistical reports released by other Federal agencies, International Commissions, Interstate Compact Commissions, and non-Government fishery agencies.

Fishery Bulletins.--A series comprised of technical reports of fundamental scientific investigations, of primary interest to naturalists and researchers, relating to the biology of fishes and other aquatic animals. These reports include monographs, and reports of studies of distribution, migration, life history, and ecology (including oceanography and limnology) of aquatic organisms and populations thereof, contributions to the theory and methodology of fishery research, and papers on the scientific basis of fishery management.

Fishery Leaflets.--These are used as correspondence aids in giving information on fishes and fisheries frequently requested by correspondents.

Fishery Circulars.--This is a series which includes popular and semitechnical publications, of general or regional interest, intended to aid conservation and the management of fishery resources.

Research Reports.--A series comprised of technical papers giving the final results of scientific investigations -- biological, technological, and economic -- of primary concern to those who would apply the results. These papers include reports on stream surveys, fish-cultural or stocking methods, fishery economics, technology, nutrition, and pharmacology, advances in shellfish culture and other methods applicable to fish and wildlife management in general.

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Statistical Digests.--A series comprised of annual statistical summaries, chiefly tabular, but usually with explanatory text, relating to the fishery resources. (See page 58.)

Available Leaflets on Fisheries, (Fishery Leaflet 9).--This publication is a list of fishery publications available free-of-charge from the Office of Information, U. S. Fish and Wildlife Service, Washington 25, D. C.

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U. S. Fish and Wildlife Service,
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A limited number of Statistical Digests are made available each year for free distribution to Government Agencies, research organizations, state fishery departments, and other groups having special interests in fishery statistics. Persons or organizations not meeting these qualifications can purchase copies of the Digests from:

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U. S. Government Printing Office,
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( ) SA-3 New England Fisheries
( ) SA-4 Middle Atlantic Fisheries
( ) SA-5 Chesapeake Fisheries
( ) SA-6 South Atlantic Fisheries
( ) SA-7 Gulf Fisheries
( ) SA-8 Pacific Coast States Fisheries
( ) SA-9 Great Lakes Fisheries
( ) SA-10 Mississippi River Fisheries
( ) SA-11 Alaska Fisheries
( ) SA-12 Packaged Fish
( ) SA-13 Canned Fish and Byproducts
( ) SA-14 Manufactured Fishery Products
( ) SA-15 Imports and Exports of Fishery Products

The following bulletins are issued as indicated:

( ) SA-16 Frozen Fish Report -- Preliminary (Monthly)
( ) SA-17 Frozen Fish Report (Monthly and Annual)
( ) SA-18 Fish Meal and Oil (Monthly and Annual)
( ) SA-19 Fish Sticks and Portions (Quarterly and Annual)
( ) SM-1 Maine Landings (Monthly and Annual)
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